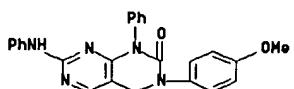
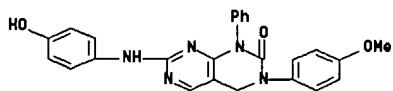
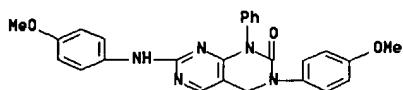
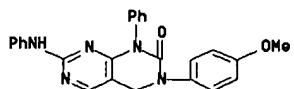

POSSIBLE INTERFERENCE

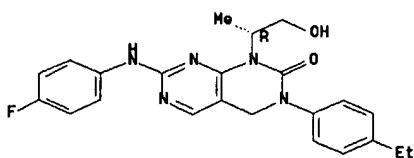
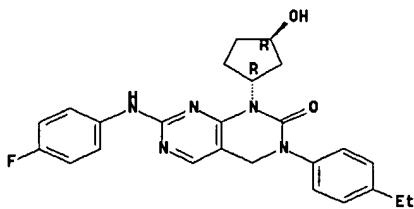
DATE: 2/17/06
TO: BERNHARDT, EMILY, TSANG, CECILIA, WILSON, JAMES
CC: TRUONG, TAMTHOM AND WARD, PAUL
FROM: MCKENZIE, THOMAS C. *TCM*
RE: 09/623,737, 10/623,972, 10/638,848, & 10/817,697

The four cases of concern are 09/623,737 and 10/638,848 both of which are assigned to Examiner Truong, 10/623,972, which is assigned to Examiner Ward, and 10/817,697, which is assigned to me. None of the four applications has issued as a patent although, 10/623,972 and 10/817,697 have been allowed. The claims of 10/623,972 and 10/817,697 are patentably distinct because of differing limitations in radical R¹, the substituent at position 1 of the pyrimidino[4,5-d]pyrimidine ring.

There are no overlapping species among the four cases. There are 53 pyrimidino[4,5-d]pyrimidine species in the two 09/623,737 and 10/638,848 cases. There are 41 pyrimidino[4,5-d]pyrimidine species in the 10/623,972 case. There are 79 pyrimidino[4,5-d]pyrimidine species in the 10/817,697 case. All of the species in the 09/623,737 and 10/638,848 cases either have methyl, ethyl, isopropyl, or cyclopentyl as the substituent at position 1 of the pyrimidino[4,5-d]pyrimidine ring. Thus, none of the species of 09/623,737 and 10/638,848 cases meet the claim limitations of 10/623,972 case, which requires C₆H₅ at this position. None of the species found in the 10/623,972 case fit the claim limitations of 10/638,848 because the closest four species pictured below, have a methoxy group on R³, not permitted by the claim limitations in 10/638,848.

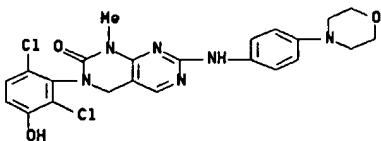
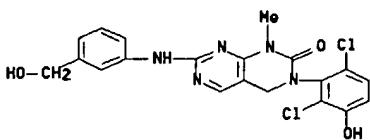
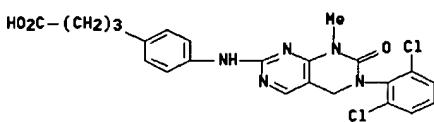
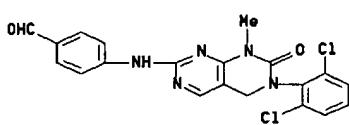
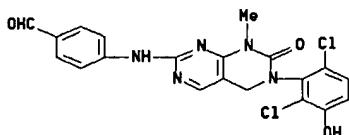


There are two species found in the 10/817,697 case which fit the claim limitations of the 10/638,848 case and which are shown below. The first compound pictured below fits the limitations



of claim 1 of 10/638,848 with $R^1 = (CH_2)_n\text{-Ar} = 4\text{-fluorophenyl}$, $n = 0$, $R^2 = \text{cyclopentyl substituted by OH}$, and $R^3 = (CH_2)_n\text{-Ar} = 4\text{-ethylphenyl}$, and $n = 0$. It does not fit the limitations of claim 2 of 10/638,848. There are other close analogues taught in 10/817,697 but all of these have methoxy groups on R^3 , not permitted by the claim limitations of 10/638,848.

There are five species found in the 10/638,848 case which fit the claim limitations of the case 10/817,697 and which are shown below. The first compound pictured below fits the limitations of



claims 1, 3, 12, 13, 16, and 17 of 10/817,697 with R¹ = alkyl = methyl, R² = R⁶ = R⁷ = R¹⁰ = R¹² = H, R³ = COR¹⁰ = CHO, R⁴ = R⁸ = Cl, and R⁵ = OR¹². It does not fit the limitations of claims 2, 4-11, 14, 15, 18-24 of 10/817,697.

Listings of the claims and of all the relevant species of cases 10/638,848, 10/623,972, and 10/817,697 are attached.

TCMCK/mc

ATTACHMENTS: 6

Day : Friday
 Date:
 2/17/2006
 Time: 12:48:27

PALM INTRANET**Application Number Information**

Application Number: 10/638848

Examiner Number: 74142 / TRUONG,
TAMTHOMAssignments
Filing or 371(c) Date: 08/11/2003

Group Art Unit: 1624 IFW IMAGE

Effective Date: 08/11/2003

Class/Subclass:
514/262.100

Application Received: 08/12/2003

Lost Case: NO

Pat. Num./Pub. Num: /20040044012

Interference Number:

Issue Date: 00/00/0000

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy

Attorney Docket Number: 5716-D1

Code:1 Secrecy Order: NO

Status: 71 /RESPONSE TO NON-FINAL OFFICE ACTION

E1-E272

ENTERED AND FORWARDED TO EXAMINER

L4
L7 (53)

Confirmation Number: 4448

Oral Hearing: NO

Title of Invention: BICYCLIC PYRIMIDINES AND BICYCLIC 3,4-DIHIDROPYRIMIDINES AS INHIBITORS OF CELLULAR PROLIFERATION

Status Date:
10/20/2005

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location

Appn Info

Contents

Petition Info

Atty/Agent Info

Continuity Data

Foreign Data

Inv

Search Another: Application# or Patent# PCT / / or PG PUBS # Attorney Docket # Bar Code #

Day : Friday
 Date:
 2/17/2006
 Time: 12:48:06

PALM INTRANET

Application Number Information

Application Number: 09/623737

Examiner Number: 74142 / TRUONG,
TAMTHOM

Filing or 371(c) Date: 09/07/2000

Group Art Unit: 1624

Effective Date: 09/07/2000

Class/Subclass:
 514/252.160

Application Received: 09/07/2000

Lost Case: NO

Patent Number:

Interference Number:
104798

Issue Date: 00/00/0000

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy Code:1

Attorney Docket Number: 5716-01-CA

Third Level Review: NO Secrecy Order: NO

Status: 180 /INTERFERENCE -- DECISION ON PRIORITY
 RENDERED BY BOARD OF INTERFERENCES

Status Date:
 03/31/2004

Confirmation Number: 6362

Oral Hearing: NO

Title of Invention: BICYCLIC PYRIMIDINES AND BICYCLIC 3,4-DIHYDROPYPRIMIDINES AS INHIBITORS OF CELLULAR PROLIFERATION

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
09623737	43C1	06/02/2004	No Charge to Location	No Charge to Name	INVENTORY,FORTY8	

Appln Info [Contents](#) [Petition Info](#) [Atty/Agent Info](#) [Continuity Data](#) [Foreign Data](#) [Inv](#)

Search Another: Application#

or Patent#

Day : Friday
 Date:
 2/17/2006
 Time: 12:48:06

PALM INTRANET

Application Number Information

Application Number: 09/623737

Examiner Number: 74142 / TRUONG,
TAMTHOM

Filing or 371(c) Date: 09/07/2000

Group Art Unit: 1624

Effective Date: 09/07/2000

Class/Subclass:
514/252.160

Application Received: 09/07/2000

Lost Case: NO

Patent Number:

Interference Number:
104798

Issue Date: 00/00/0000

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy Code:1

Attorney Docket Number: 5716-01-CA

Third Level Review: NO Secrecy Order: NO

Status: 180 /INTERFERENCE -- DECISION ON PRIORITY
 RENDERED BY BOARD OF INTERFERENCES

Status Date:
 03/31/2004

Confirmation Number: 6362

Oral Hearing: NO

Title of Invention: BICYCLIC PYRIMIDINES AND BICYCLIC 3,4-DIHYDROPYPRIMIDINES AS INHIBITORS OF CELLULAR PROLIFERATION

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
09623737	43C1	06/02/2004	No Charge to Location	No Charge to Name	INVENTORY,FORTY8	

Appln Info [Contents](#) [Petition Info](#) [Atty/Agent Info](#) [Continuity Data](#) [Foreign Data](#) [Inv.](#)

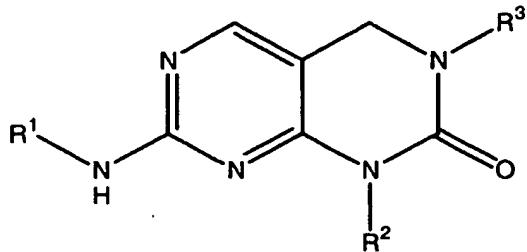
Search Another: Application#

or Patent#

CLAIMS

What is claimed is:

1. A compound of the formula:



5 wherein:

R¹ is selected from C₁-C₁₀ alkyl, C₂-C₁₀ alkenyl, or C₂-C₁₀ alkynyl optionally substituted by OH, alkoxy, phenoxy, thio C₁-C₁₀ alkyl, or NR⁴R⁵; (CH₂)_n-Ar, wherein the (CH₂)_n alkyl chain is optionally substituted by OH, alkoxy, phenoxy, thio C₁-C₁₀ alkyl, or NR⁴R⁵; COR⁴, wherein R⁴ is alkyl optionally substituted by OH, alkoxy, phenoxy, thio C₁-C₁₀ alkyl, or NR⁴R⁵; C₃-C₁₀ cycloalkyl optionally substituted by OH, alkoxy, phenoxy, NR⁴R⁵, SO₂NR⁴R⁵, or SO₃R⁴; (CH₂)_nheterocyclyl; or alkyl optionally substituted by COR⁴, CO₂R⁴ or CONR⁴R⁵;

R⁴ is H or C₁-C₆ alkyl;

15 R⁵ is C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, (CH₂)_nAr, C₃-C₁₀ cycloalkyl, heterocyclyl or heteroaryl

n is 0 to 3;

R³ is (CH₂)_nAr;

20 Ar is phenyl optionally substituted by halo or alkyl optionally substituted by OH, alkoxy, phenoxy, thio C₁-C₁₀ alkyl, or NR⁴R⁵;

R² is hydrogen; C₁-C₁₀ alkyl substituted by halo, nitrile, OH, alkoxy, phenoxy, thio C₁-C₁₀ alkyl, NR⁴R⁵ or (CH₂)-heteroaryl; (CH₂)_nAr, wherein n is 0-3; -(CH₂)-heteroaryl; C₃-C₁₀ cycloalkyl optionally substituted by OH, alkoxy, phenoxy, NR⁴R⁵, SO₂NR⁴R⁵, or SO₃R⁴; (CH₂)-heterocyclyl; or COR⁴;

R⁴ is H, C₁-C₆ alkyl optionally substituted by halogen; NR⁵R⁶; cycloalkyl; or (CH₂)_nAr;

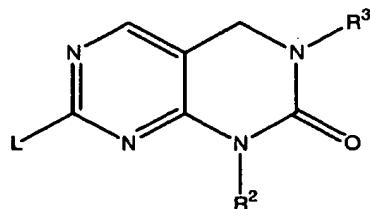
R⁵ and R⁶ are independently C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, (CH₂)_nAr, C₃-C₁₀ cycloalkyl, heterocyclyl or heteroaryl; or a pharmaceutically acceptable salt form thereof.

5 2. A compound of Claim 1 wherein R³ is (CH₂)_nAr substituted by one or two halogens.

10 3. A compound of Claim 1 wherein R² is hydrogen; C₁-C₁₀ alkyl optionally substituted by halo, nitrile, OH, alkoxy, phenoxy, thio C₁-C₁₀ alkyl, NR⁴R⁵ or (CH₂)-heteroaryl.

15 4. A method for the preparation of a compound of Claim 1, said method comprising:

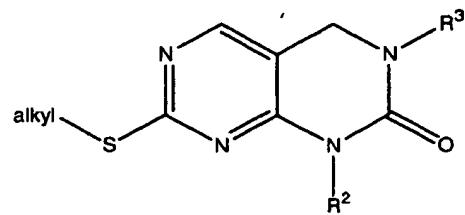
(a) treating a compound of the formula:



wherein L is a leaving group, with an amine of the formula R¹-NH₂, wherein n, 20 R¹, R² and R³ have the meanings provided in Claim 1.

5 5. A method for the preparation of a compound of Claim 1, said method comprising:

25 (a) treating a compound of the formula:



with an oxidizing agent followed by an amine of the formula R¹-NH₂, wherein n, R¹, R² and R³ have the meanings provided in Claim 1.

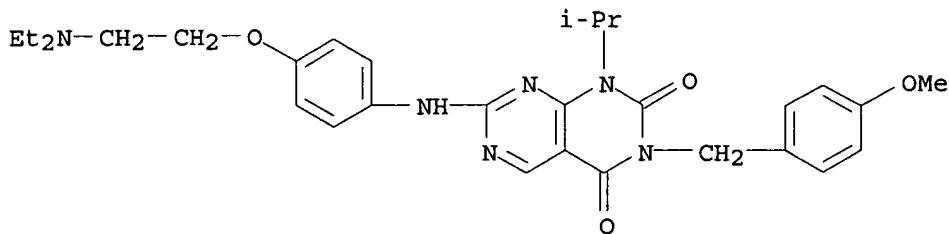
5

6. A pharmaceutical composition comprising a pharmaceutically effective amount of a compound of Claim 1 and a pharmaceutically acceptable carrier.

10

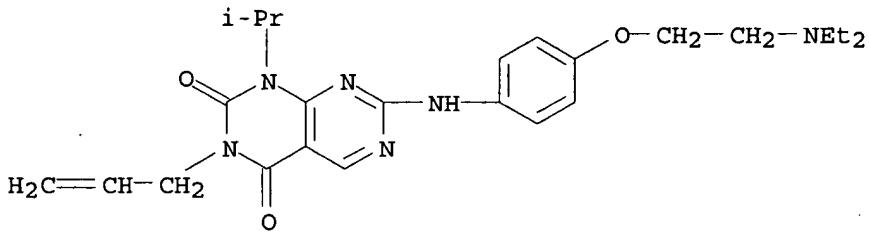
=> 10/638,848 compounds

L7 ANSWER 1 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



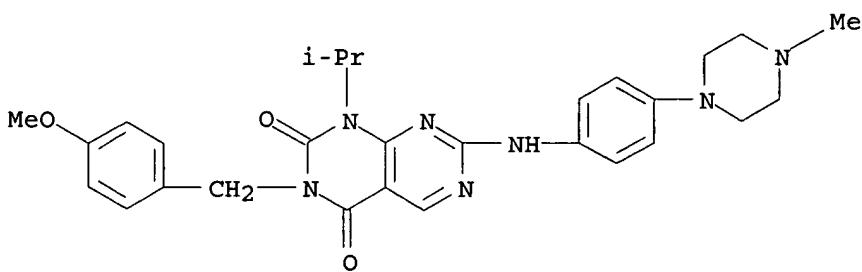
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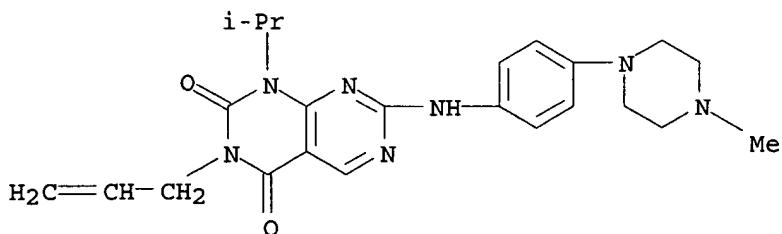
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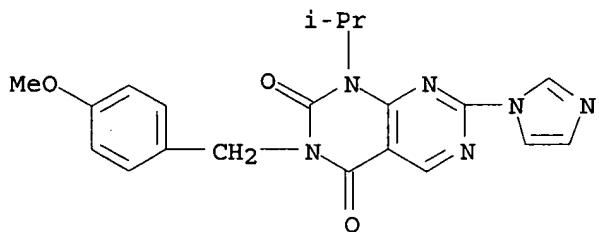
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L7 ANSWER 4 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



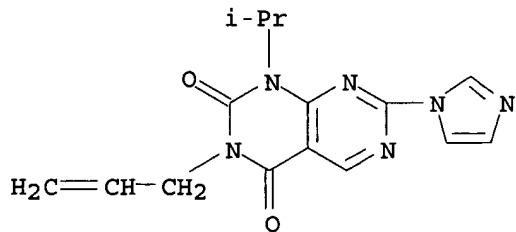
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L7 ANSWER 5 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



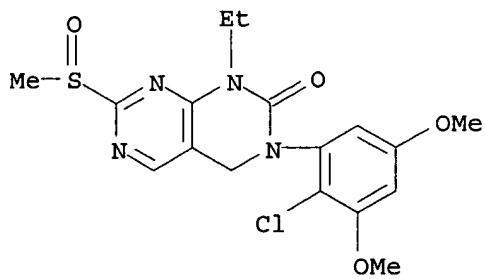
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L7 ANSWER 6 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



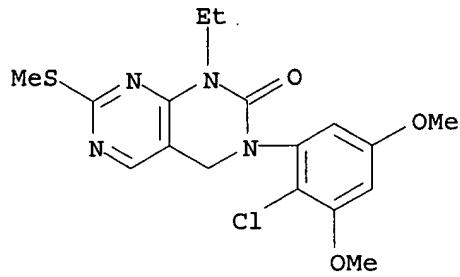
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L7 ANSWER 7 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



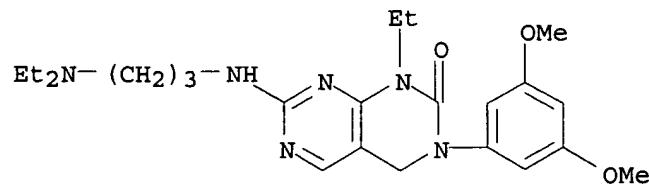
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L7 ANSWER 8 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



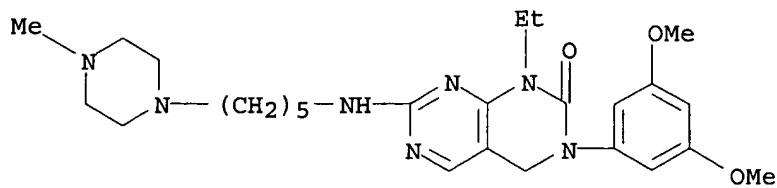
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L7 ANSWER 9 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



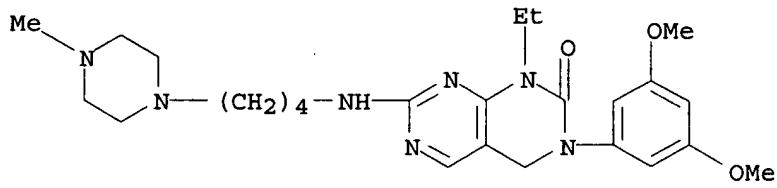
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L7 ANSWER 10 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



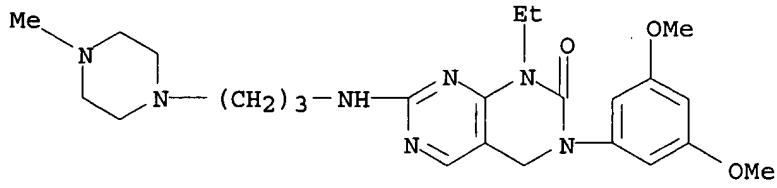
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L7 ANSWER 11 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



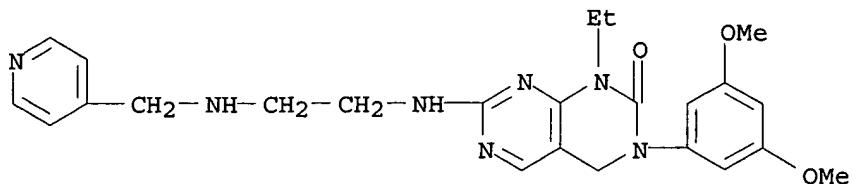
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L7 ANSWER 12 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



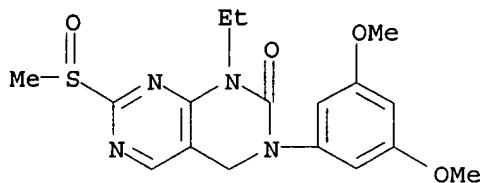
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L7 ANSWER 13 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



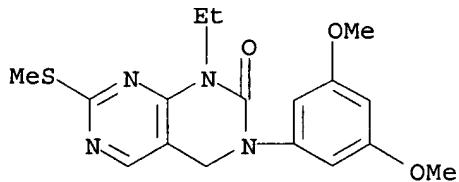
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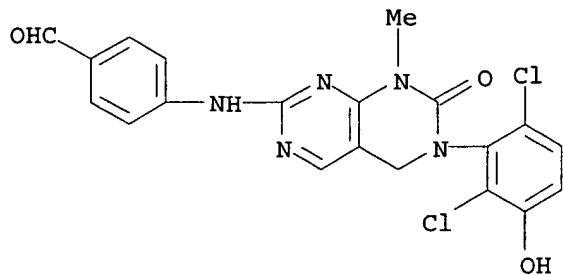
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L7 ANSWER 15 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



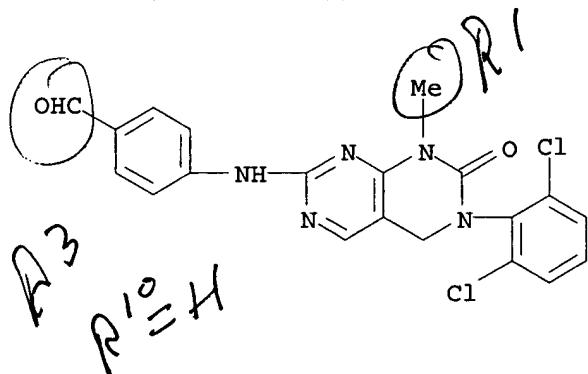
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L7 ANSWER 16 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



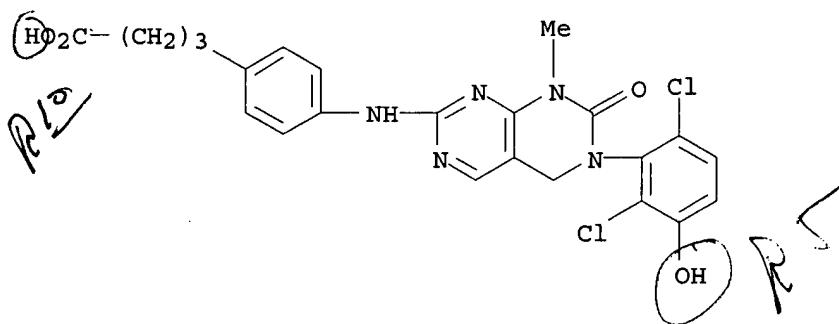
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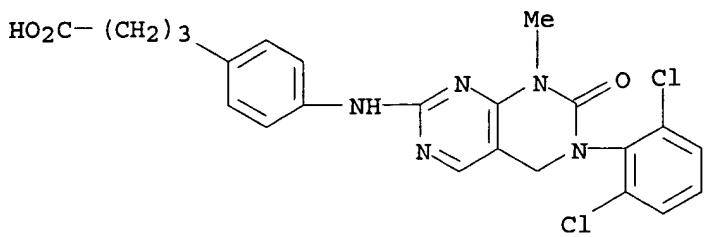
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L7 ANSWER 18 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



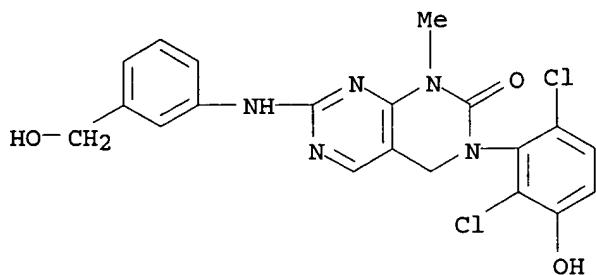
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L7 ANSWER 19 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



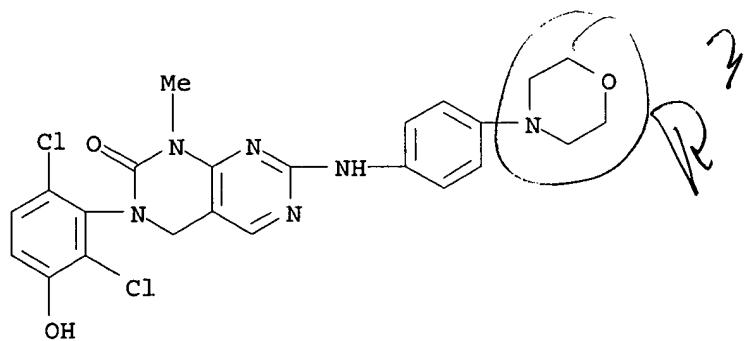
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L7 ANSWER 20 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



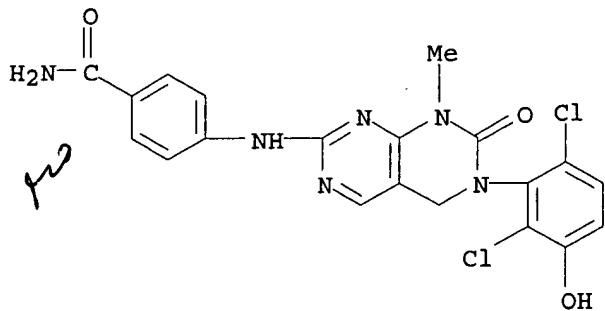
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L7 ANSWER 21 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



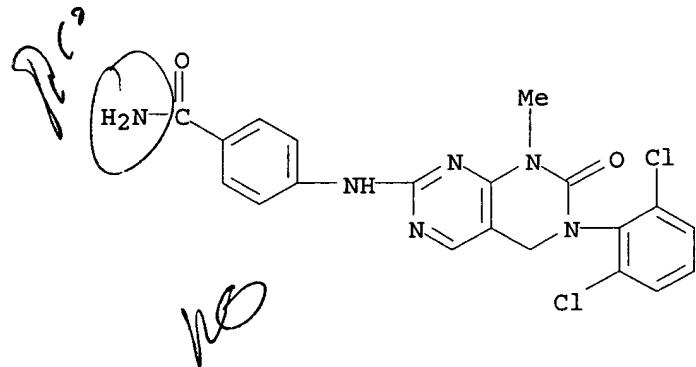
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L7 ANSWER 22 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



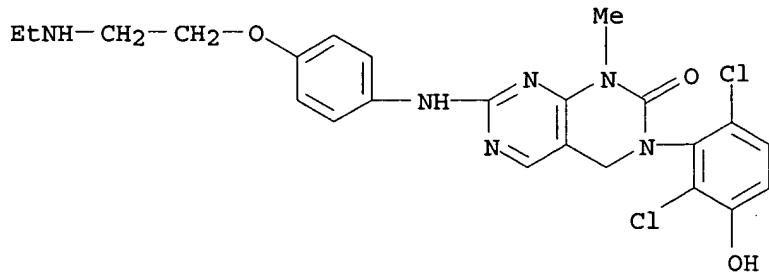
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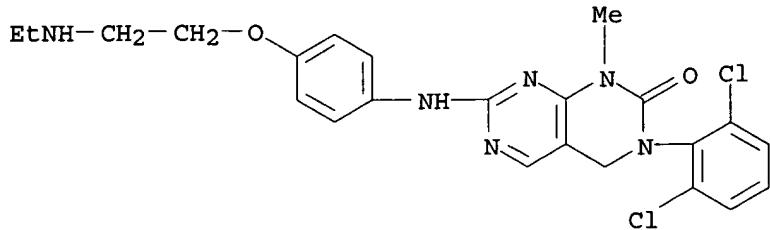
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L7 ANSWER 24 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



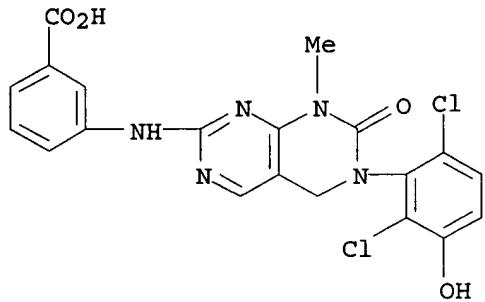
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L7 ANSWER 25 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



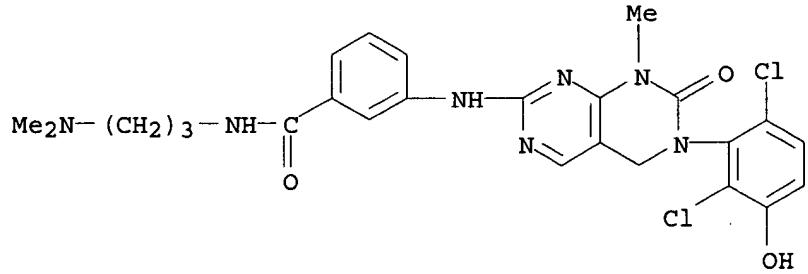
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L7 ANSWER 26 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



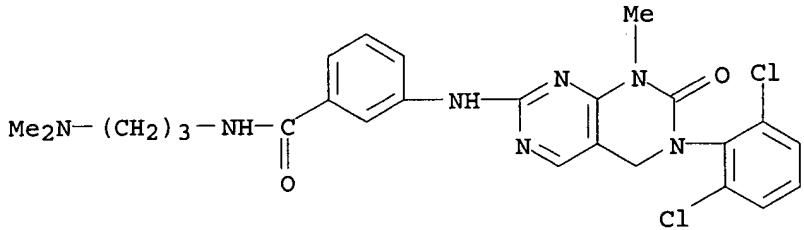
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L7 ANSWER 27 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



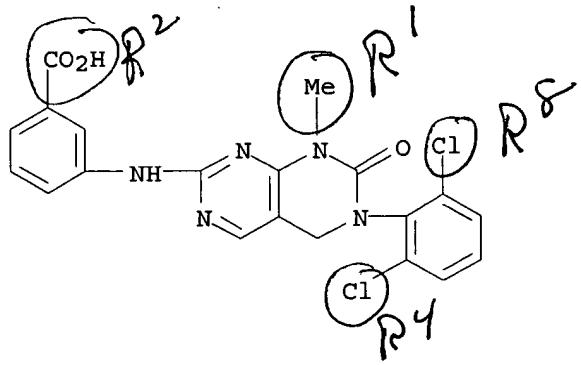
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L7 ANSWER 28 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



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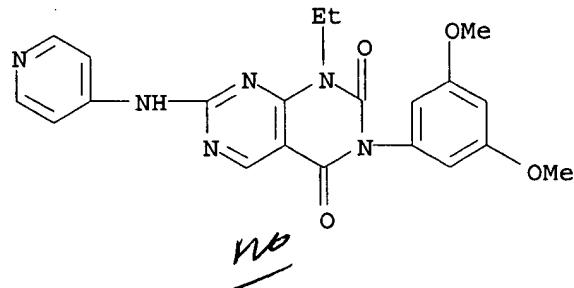
L7 ANSWER 29 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



*does not fit
inhibition
of R² in
10/8/7, C97*

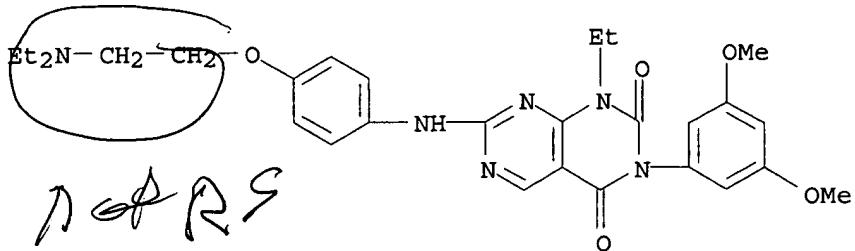
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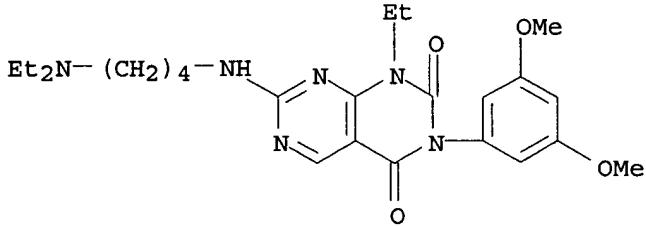
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L7 ANSWER 31 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



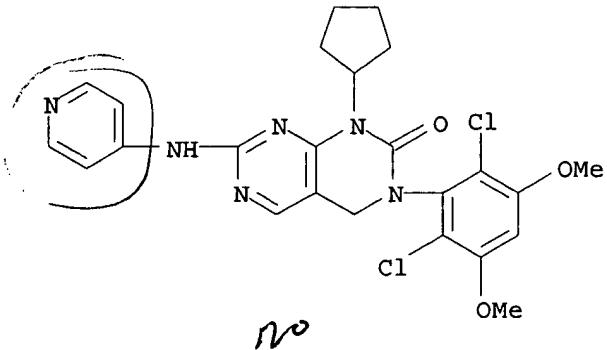
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L7 ANSWER 32 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



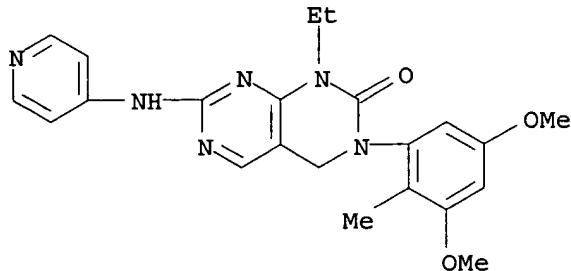
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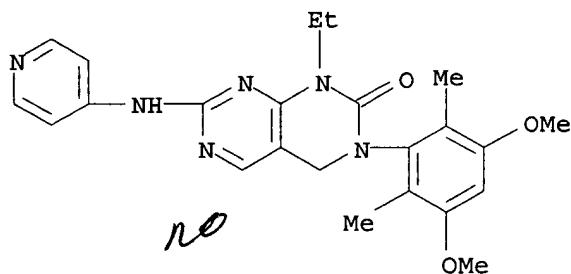
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L7 ANSWER 34 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



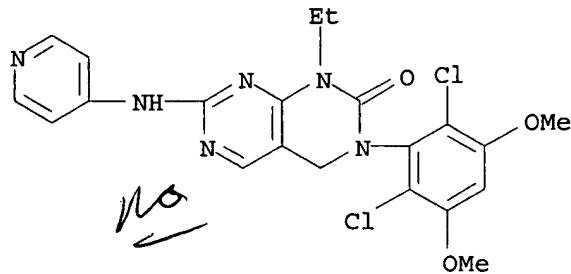
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L7 ANSWER 35 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



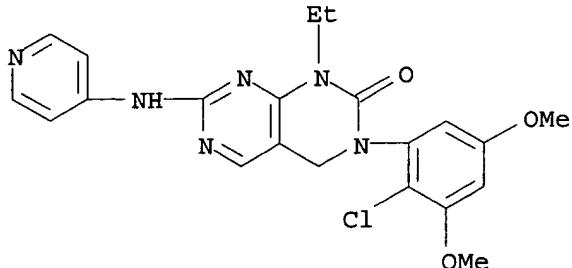
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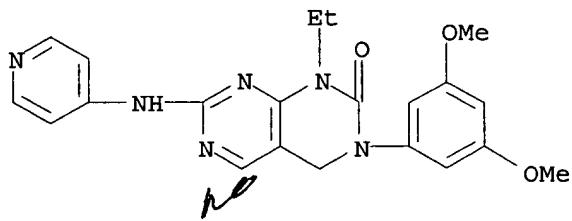
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no

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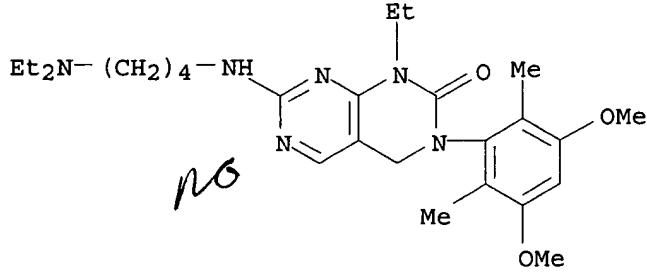
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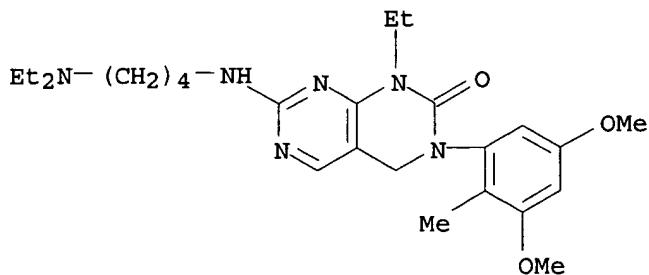
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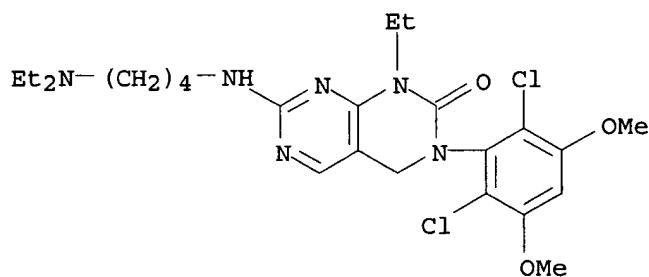
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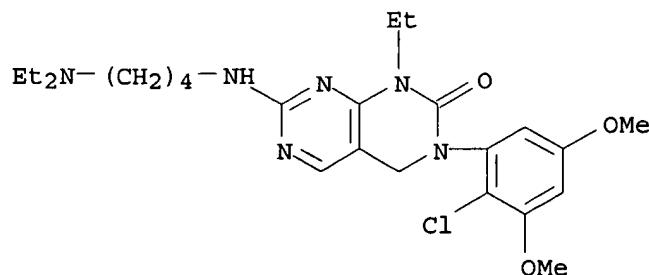
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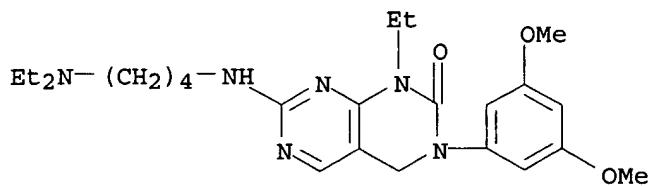
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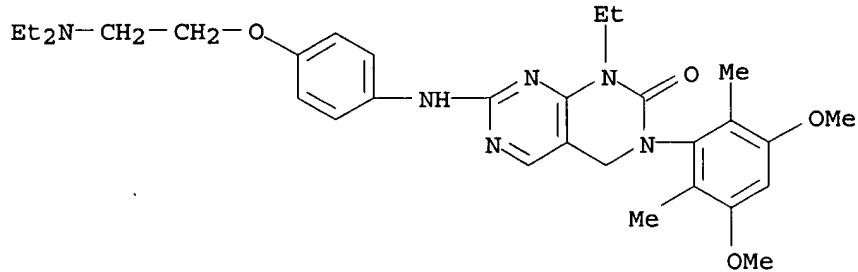
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L7 ANSWER 43 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



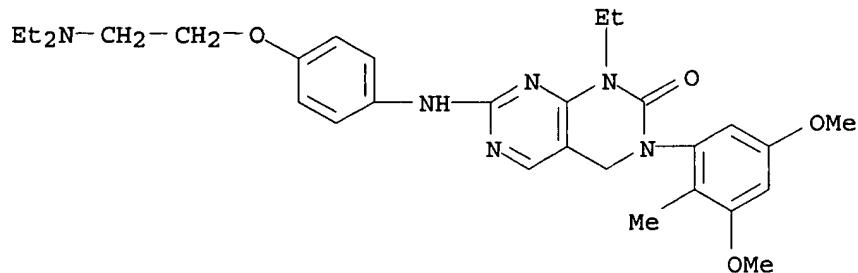
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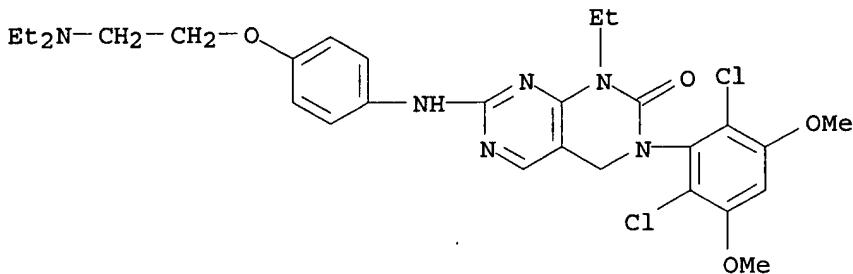
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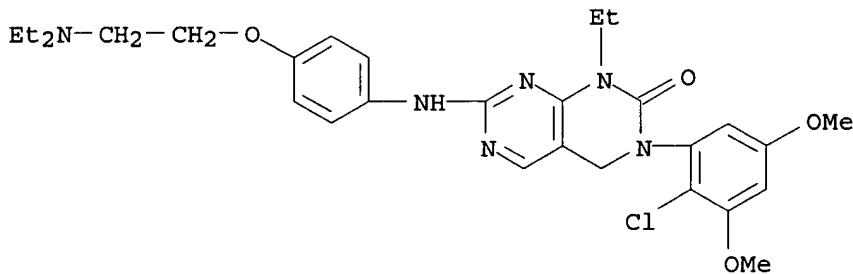
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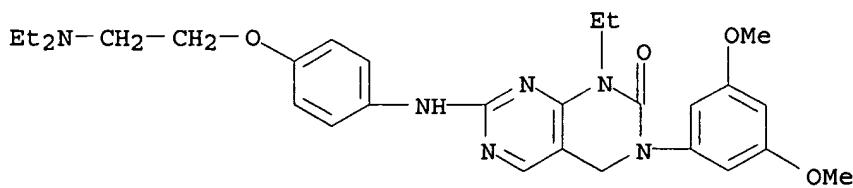
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L7 ANSWER 47 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



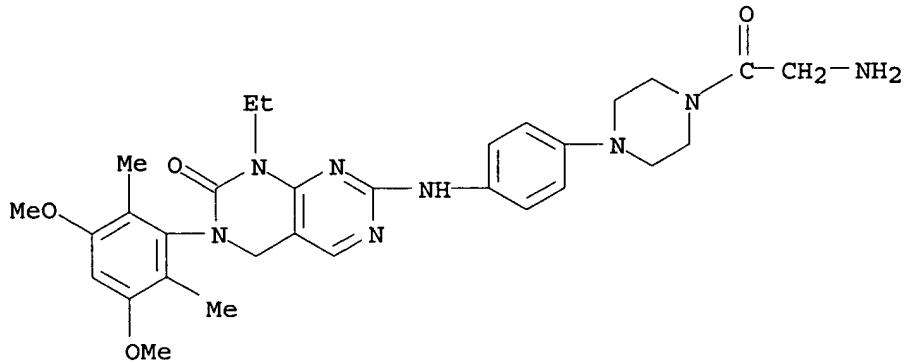
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L7 ANSWER 48 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



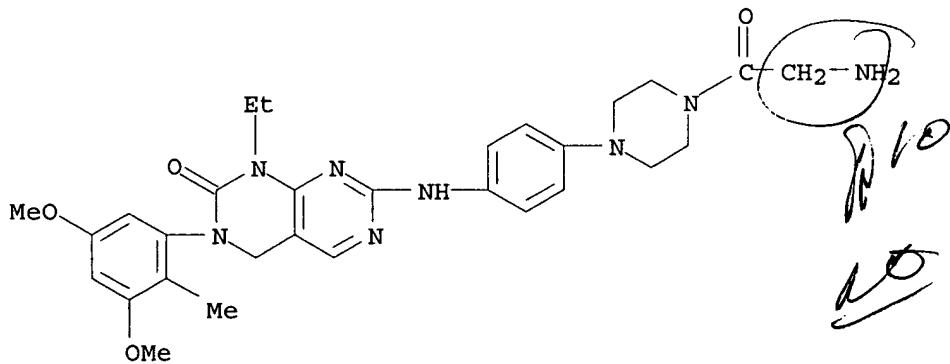
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L7 ANSWER 49 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



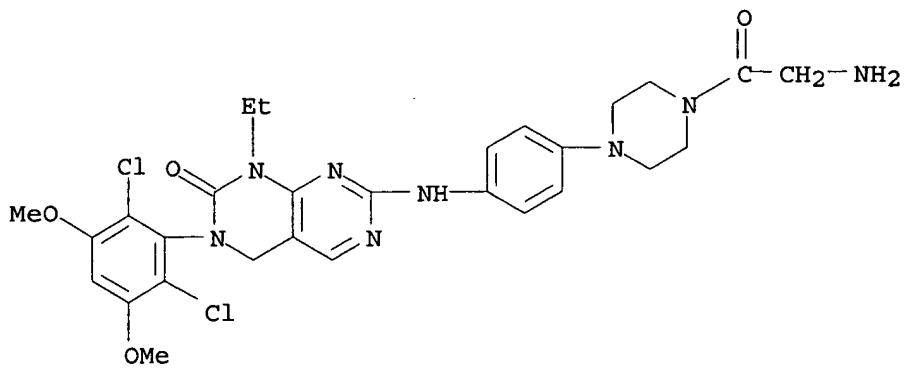
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L7 ANSWER 50 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



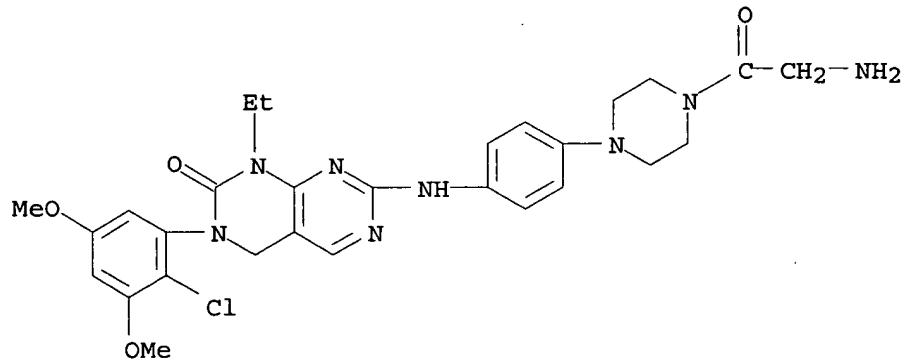
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L7 ANSWER 51 OF 53 REGISTRY COPYRIGHT 2006 ACS on STN



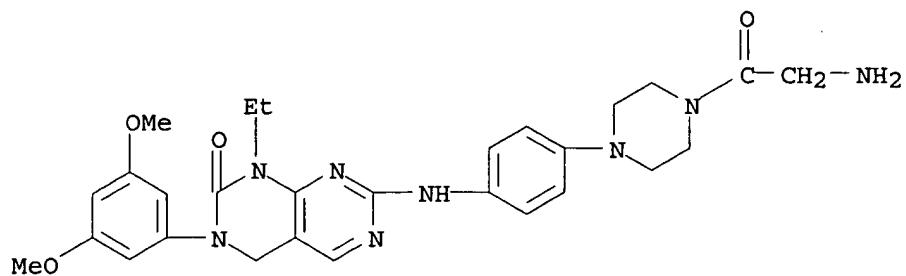
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Day : Friday
 Date:
 2/17/2006
 Time: 12:57:11

PALM INTRANET**Application Number Information**

Application Number: 10/623972

Examiner Number: 80316 / WARD, PAULAssignments

Filing or 371(c) Date: 07/21/2003

Group Art Unit: 1623 IFW IMAGE

Effective Date: 07/21/2003

Class/Subclass:

544/256.000

Application Received: 07/22/2003

Lost Case: NO

Waiting for Response

Pat. Num./Pub. Num: /20040038995

Desc.

Issue Date: 00/00/0000

Query Request

Date of Abandonment: 00/00/0000

Mail N/ =

Unmatched Petition: NO

L&R Code: Secrecy

Attorney Docket Number: 21266 US1 Third Level Review: NO Secrecy Order: NO

Status: 94 /PUBLICATIONS -- ISSUE FEE PAYMENT

Status Date:

RECEIVED

01/04/2006

Confirmation Number: 5346

Oral Hearing: NO

Title of Invention: PYRIMIDO COMPOUNDS HAVING ANTIPROLIFERATIVE
ACTIVITY

E 446-ESG

LC (84)
L9 (41)

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
10623972IW	7410	01/04/2006	No Charge to Location	No Charge to Name	BABAAN, NOEL	IDC/01/

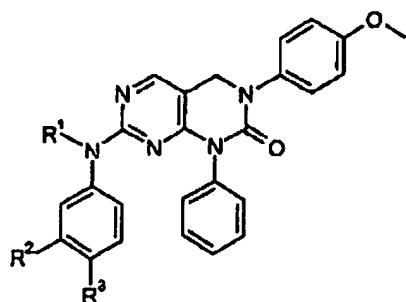
Appn Info [Contents](#) [Petition Info](#) [Atty/Agent Info](#) [Continuity Data](#) [Foreign Data](#) [Inv](#)

Search Another: Application# or Patent# PCT / / or PG PUBS #

Serial No. 10/623,972
Filed: July 21, 2003

IN THE CLAIMS

1. (Currently amended) A compound of formula:



I.

wherein

R¹ is selected from the group

- H,
- COR⁴, and
- COOCHR⁵OCOR⁴;

R² and R³ are independently selected from

- H, and
- OR⁵;

R⁴ is selected from the group

- C₁₋₆ alkyl,
- lower alkyl substituted by up to 4 groups independently selected from
- NR⁵R⁶,
- SR⁵,
- OR⁵,

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-aryl,
-aryl substituted by up to 2 groups independently selected from
-OR⁵ and C₁₋₄ lower alkyl, and
-heteroaryl, and
.heterocycle;

R⁵ and R⁶ are independently selected from
-H, and
-C₁₋₅ lower alkyl,

or, alternatively, -NR⁵R⁶ can form a ring having 3 to 7 atoms, said ring optionally including one or more additional N or O atoms;

or the pharmaceutically acceptable salts thereof.

2. (Original) The compound of claim 1 wherein R¹ is -COR⁴.
3. (Original) The compound of claim 2 wherein R² is H.
4. (Original) The compound of claim 3 wherein R³ is H.
5. (Previously presented) The compound of claim 4 which is selected from the group:

N-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylacetamide;

N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylpropanamide;

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2-Amino-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylacetamide acetic acid salt;

2-Amino-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylacetamide hydrochloric acid salt;

(2S)-2-Amino-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-4-methylthio-N-phenylbutanamide;

(2S)-2-amino-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-4-methylthio-N-phenylbutanamide acetic acid salt;

(2S)-2-Amino-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-4-methylthio-N-phenylbutanamide hydrochloric acid salt;

(2S)-2-Amino-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-3-phenyl-N-phenylpropanamide;

(2S)-2-Amino-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-3-phenyl-N-phenylpropanamide hydrochloric acid salt;

(2S)-2-Amino-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-4-methyl-N-phenylpentanamide acetic acid salt;

(2S)-2-Amino-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-4-methyl-N-phenylpentanamide hydrochloric acid salt;

(2S)-2-Amino-3-(4-hydroxyphenyl)-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylpropanamide hydrochloric acid salt;

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(2S)-2,6-Diamino-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylhexanamide di-hydrochloric acid salt;

(2S)-2-Amino-3-indol-3-yl-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylpropanamide hydrochloric acid salt ;

(2S)-2-Amino-3-hydroxy-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylpropanamide;

(2R)-2-Amino-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-4-methylthio-N-phenylbutanamide hydrochloric acid salt;

N-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylpentanamide; and

N-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylbutanamide.

6. (Previously presented) The compound of claim 2 which is selected from the group:

N-(4-Hydroxyphenyl)-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]acetamide; and

N-(4-methoxyphenyl)-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]acetamide.

7. (Original) The compound of claim 1 wherein R¹ is -COOCHR⁵OCOR⁴.

8. (Original) The compound of claim 7 wherein R² is H.

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9. (Original) The compound of claim 8 wherein R³ is H.
10. (Previously presented) The compound of claim 9 which is selected from the group:

{N-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylcarbamoyloxy)methyl acetate;

{N-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylcarbamoyloxy)methyl 2-(dimethylamino)acetate;

{N-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylcarbamoyloxy)methyl 2-(dimethylamino)acetate hydrochloric acid salt; and

{N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylcarbamoyloxy)methyl piperidine-4-carboxylate trifluoroacetic acid salt.

11. (Original) The compound of claim 1 wherein R¹ is H.
12. (Original) The compound of claim 11 wherein R² is H.
13. (Previously presented) The compound of claim 12 which is selected from the group:

3-(4-Methoxyphenyl)-1-phenyl-7-(phenylamino)-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one;

3-(4-Methoxyphenyl)-1-phenyl-7-(phenylamino)-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one methanesulfonate salt;

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Filed: July 21, 2003

7-[(4-Hydroxyphenyl)amino]-3-(4-methoxyphenyl)-1-phenyl-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one; and

3-(4-Methoxyphenyl)-7-[(4-methoxyphenyl)amino]-1-phenyl-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one.

14. (Original) A compound selected from the group:

3-(4-Methoxyphenyl)-1-phenyl-7-(phenylamino)-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one,

3-(4-Methoxyphenyl)-1-phenyl-7-(phenylamino)-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one methanesulfonate salt,

7-[(4-Hydroxyphenyl)amino]-3-(4-methoxyphenyl)-1-phenyl-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one, and

3-(4-Methoxyphenyl)-7-[(4-methoxyphenyl)amino]-1-phenyl-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one.

15. (Original) A pharmaceutical composition comprising a therapeutically effective amount of a compound of claim 1 and pharmaceutically acceptable carrier or excipient.

Claim 16. (Canceled).

Claim 17. (Canceled).

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18. (Previously presented) A method of treating lung, colon or prostate cancer comprising administering to a patient in need of such treatment a therapeutically effective amount of a compound of claim 1.

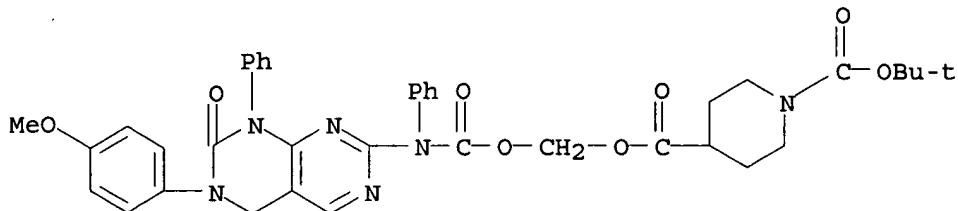
Claim 19. (Cancelled).

20. (Previously presented) A compound selected from the group:

(Chloromethoxy)-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-benzamide,
3-(4-Methoxyphenyl)-1-phenyl-7-[(4-(1,1,2,2-tetramethyl-1-silapropoxy) phenyl]amino)-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one, and
N-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-[4-(1,1,2,2-tetramethyl-1-silapropoxy)phenyl]acetamide.

=> 10/623,972 compounds

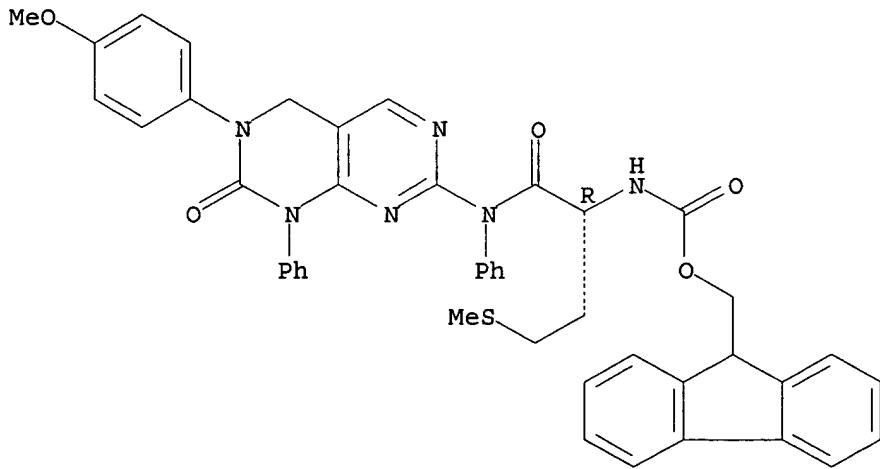
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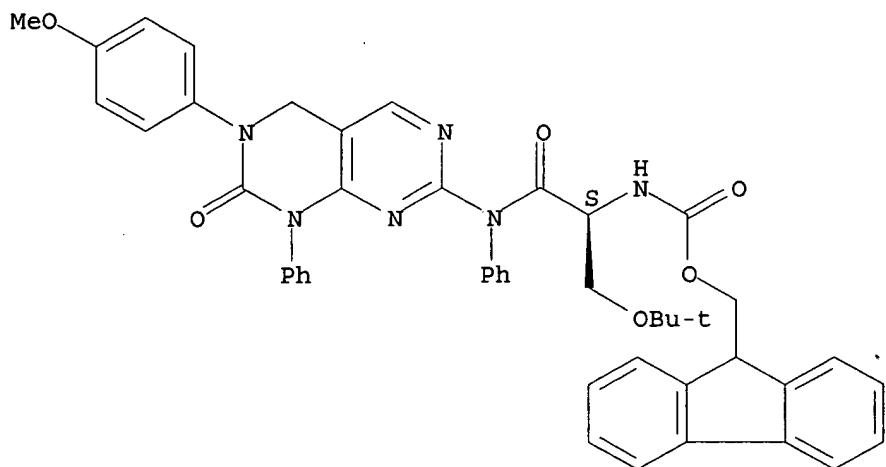
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L9 ANSWER 3 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN

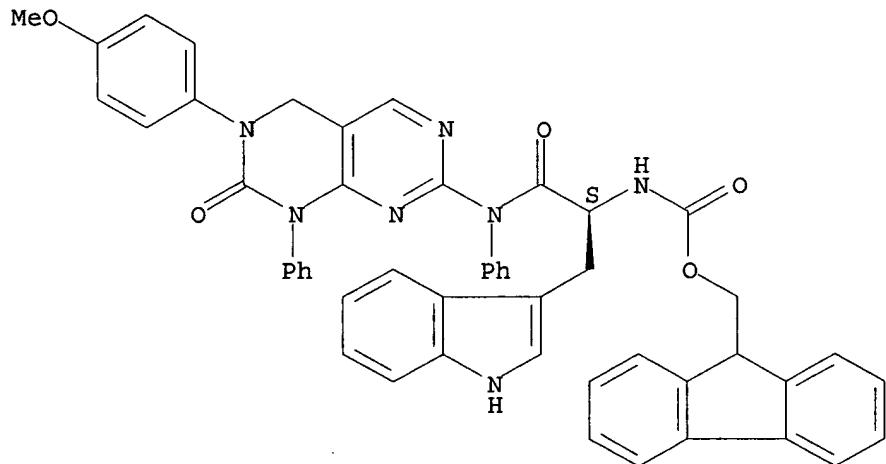
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 ANSWER 4 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN

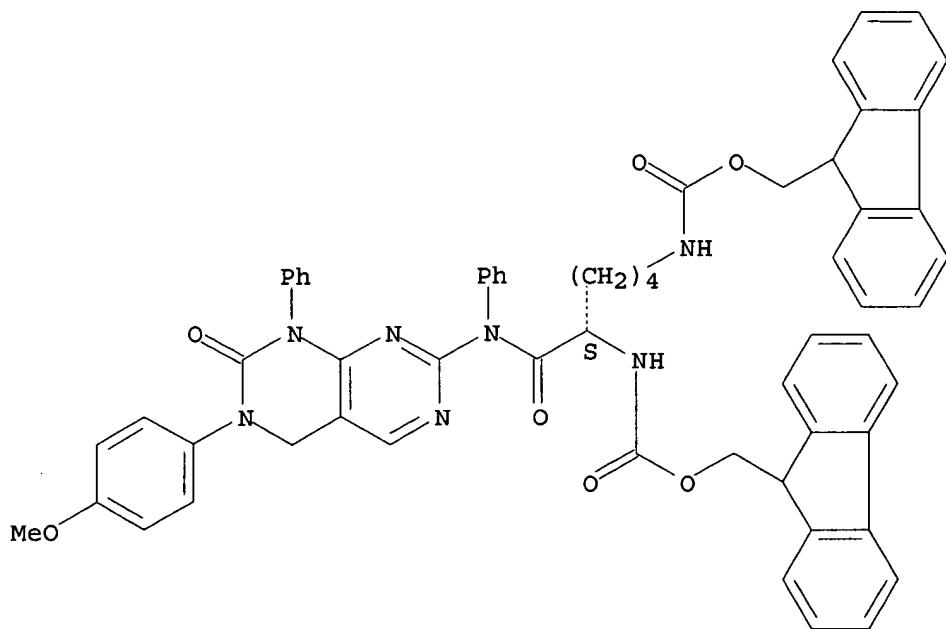
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 ANSWER 5 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN

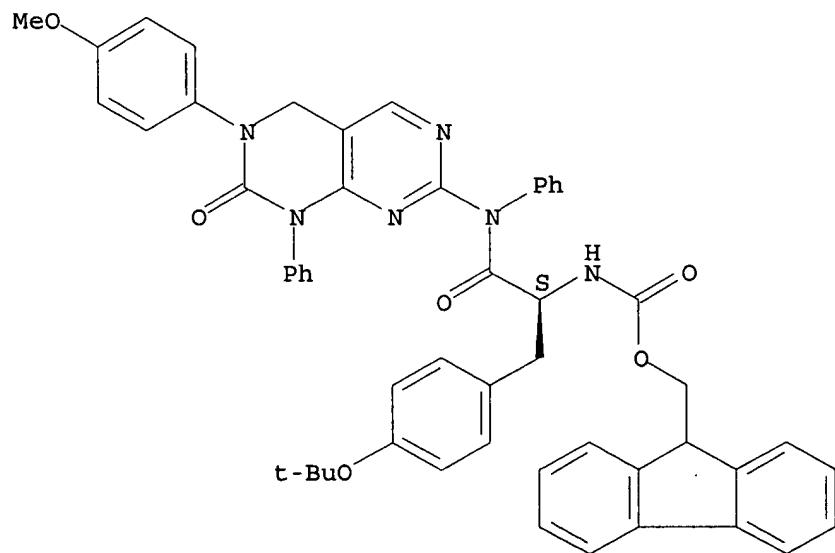
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 ANSWER 6 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN

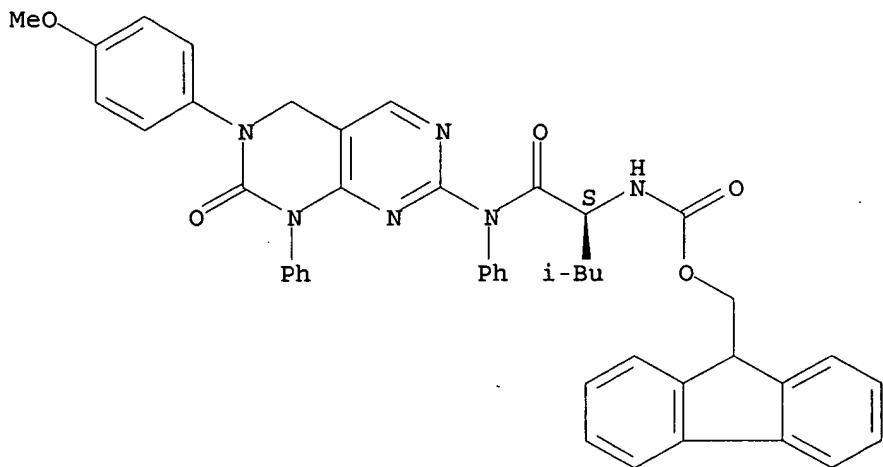
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 ANSWER 7 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN

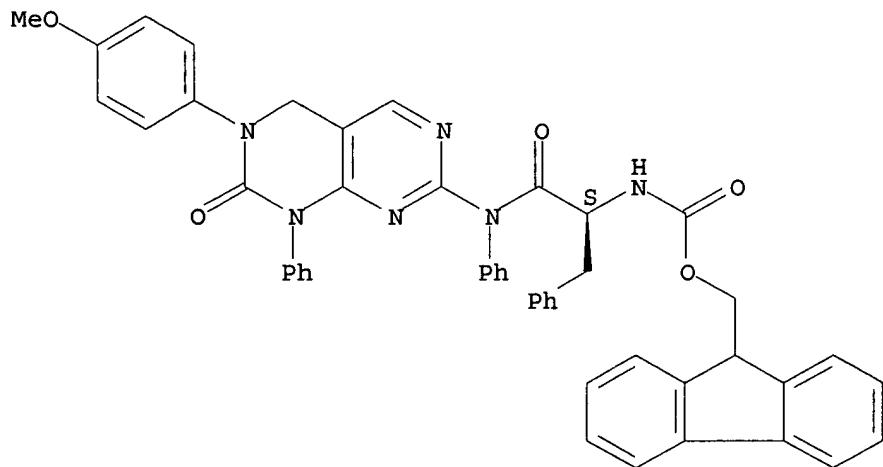
Absolute stereochemistry.



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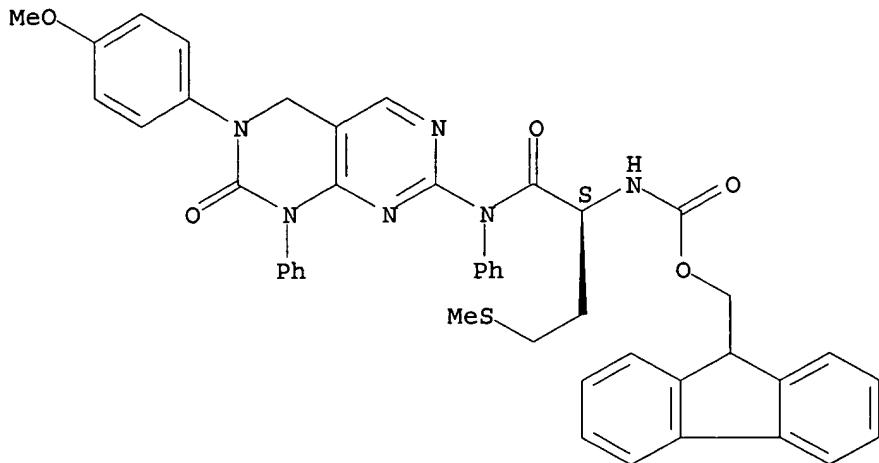
Absolute stereochemistry.



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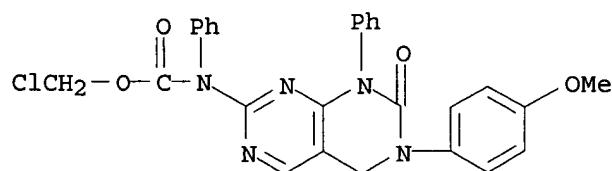
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Absolute stereochemistry.



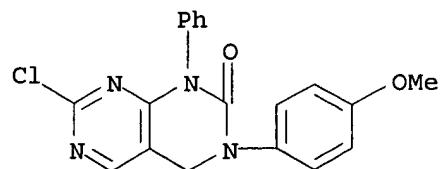
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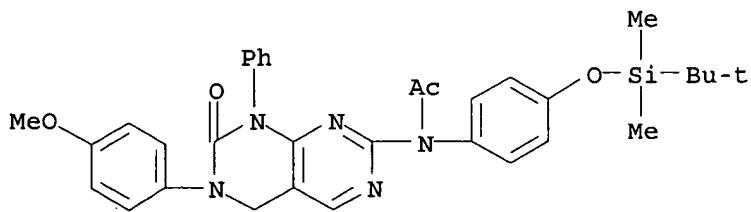
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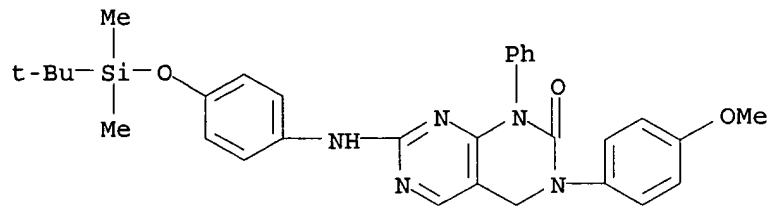
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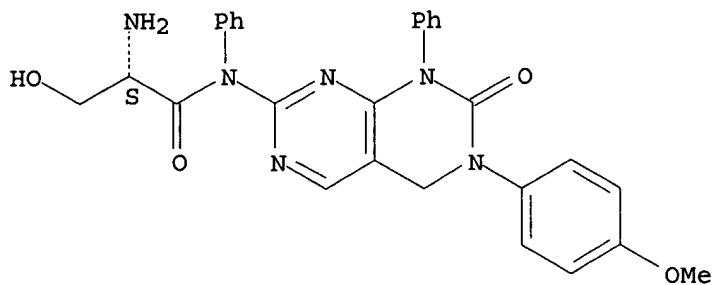
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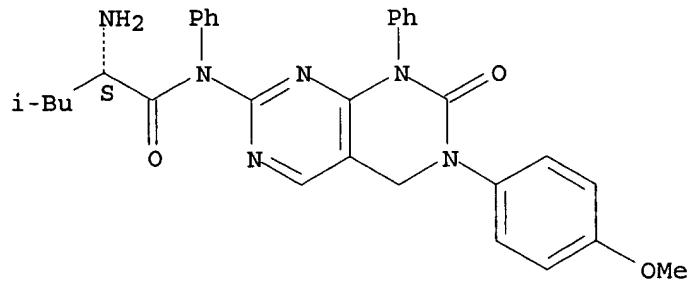
Absolute stereochemistry.



● HCl

L9 ANSWER 15 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.

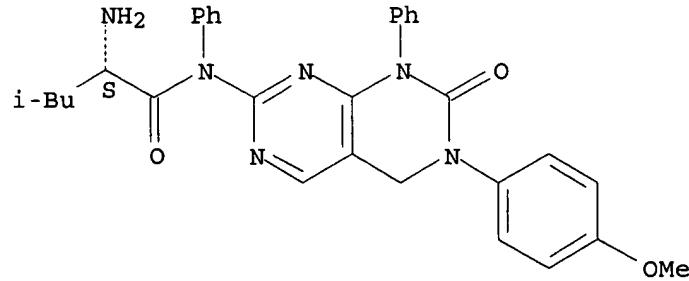


● HCl

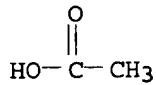
L9 ANSWER 16 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN

CM 1

Absolute stereochemistry.

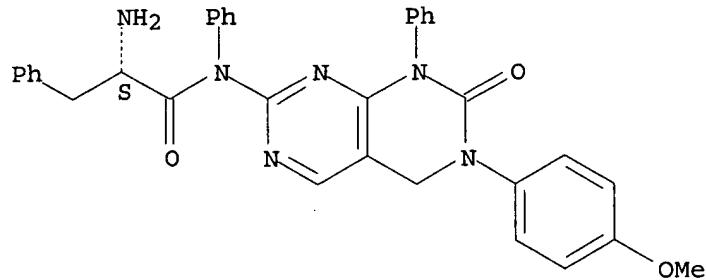


CM 2



L9 ANSWER 17 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN

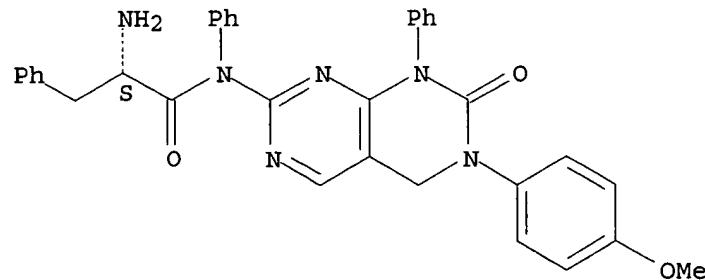
Absolute stereochemistry.



● HCl

L9 ANSWER 18 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.

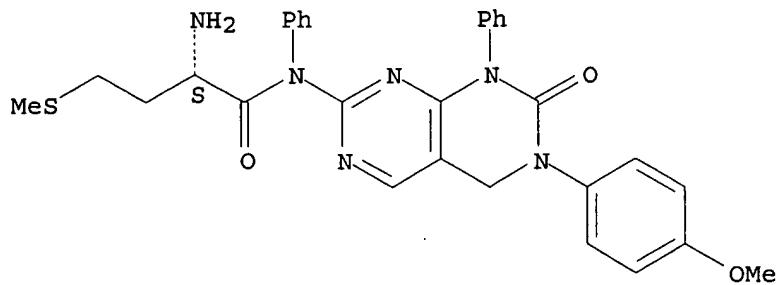


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 ANSWER 19 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.

Thomas McKenzie

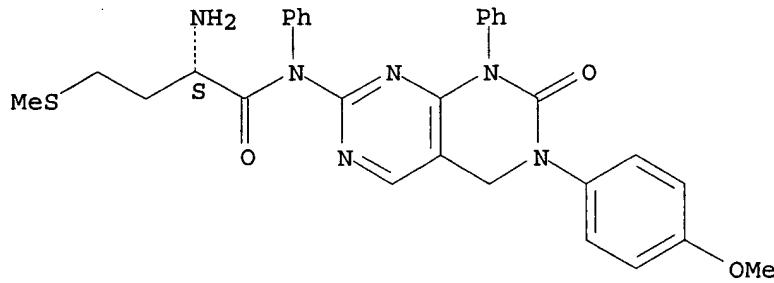


● HCl

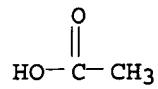
L9 ANSWER 20 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN

CM 1

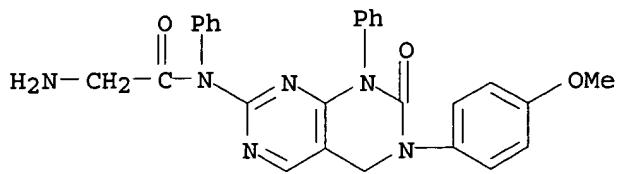
Absolute stereochemistry.



CM 2

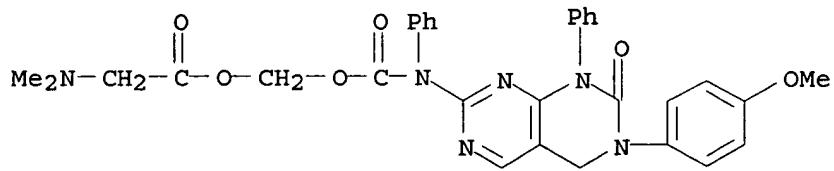


L9 ANSWER 21 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN



● HCl

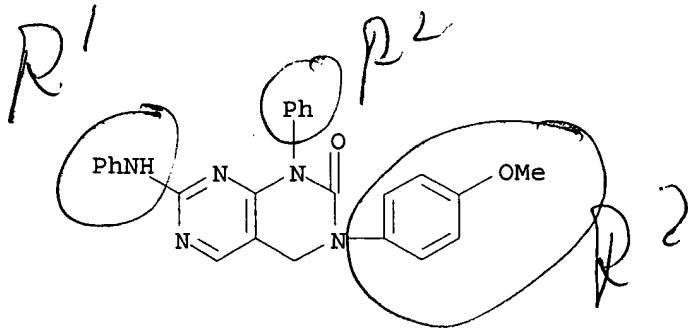
L9 ANSWER 22 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN



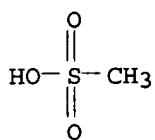
● HCl

L9 ANSWER 23 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN

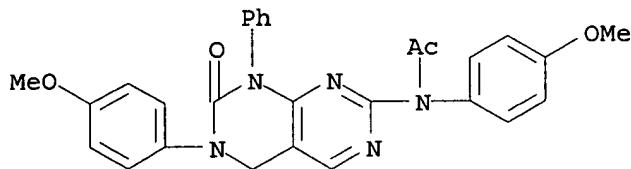
CM 1



CM 2

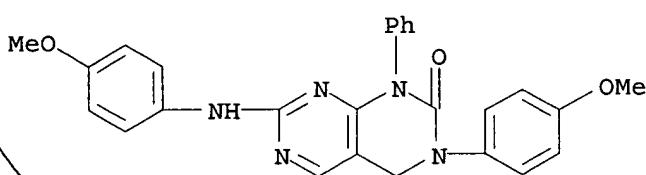


L9 ANSWER 24 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN



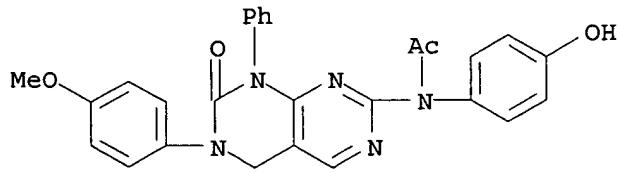
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L9 ANSWER 25 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

L9 ANSWER 26 OF 41 REGISTRY COPYRIGHT 2006 ACS on STN

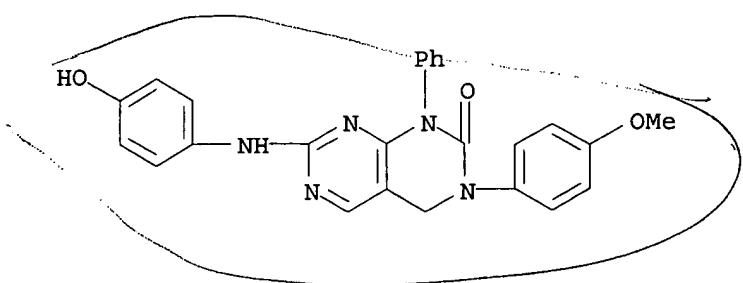


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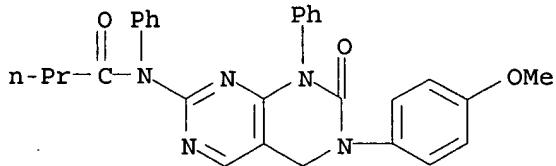
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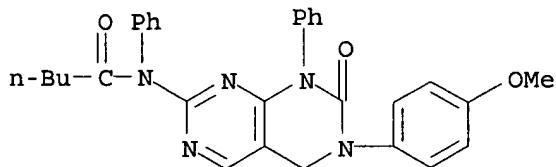
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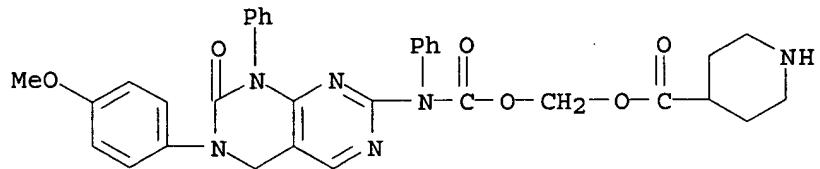
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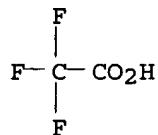
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CM 1

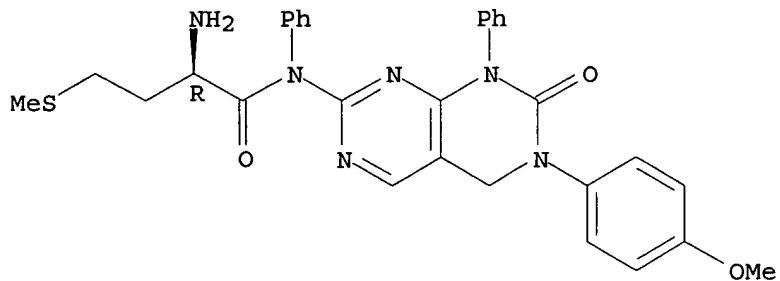


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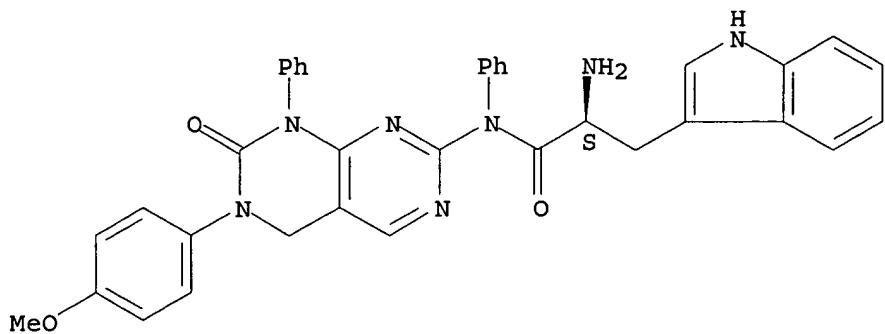
Absolute stereochemistry.



● HCl

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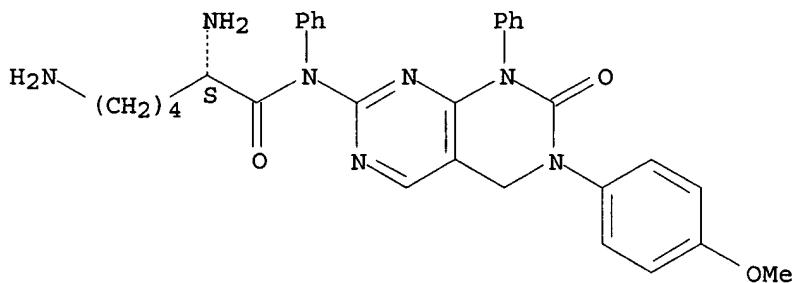
Absolute stereochemistry.



● HCl

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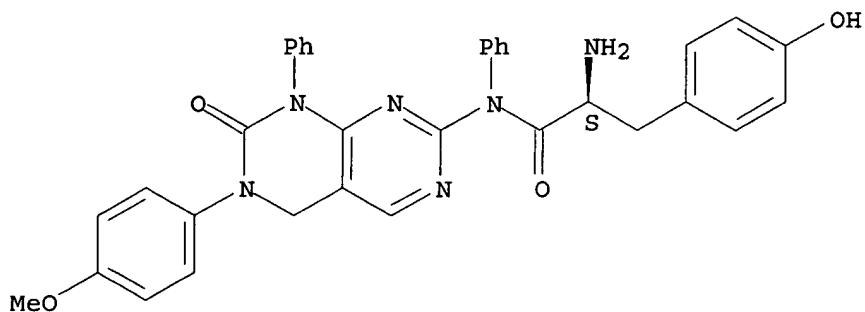
Absolute stereochemistry.



● 2 HCl

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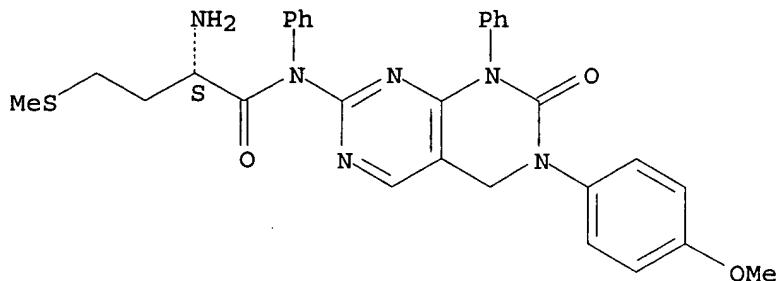
Absolute stereochemistry.



● HCl

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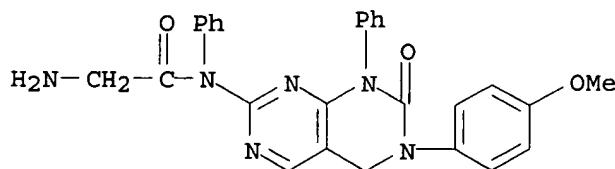
Absolute stereochemistry.



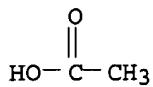
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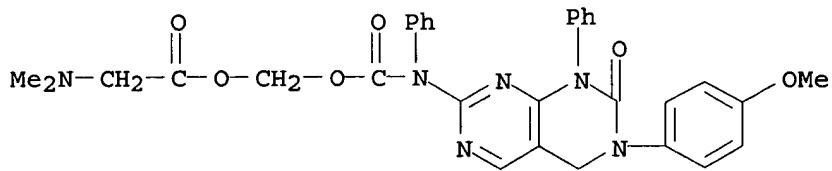
CM 1



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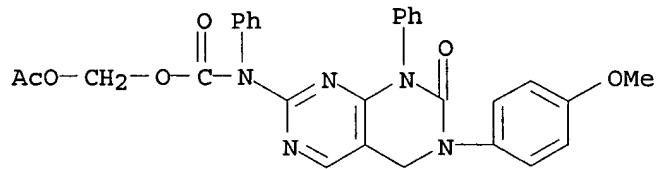


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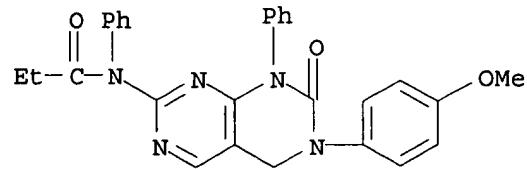
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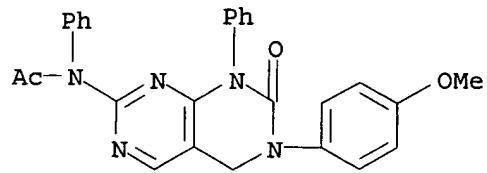
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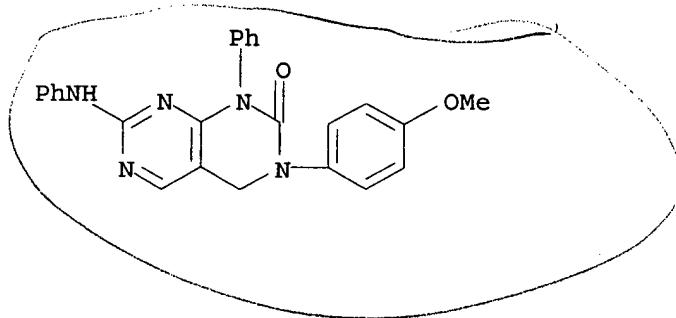
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Day : Friday
 Date:
 2/17/2006
 Time: 13:01:11

PALM INTRANET

Application Number Information

Application Number: 10/817697

Assignments

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Effective Date: 04/02/2004

Application Received: 04/05/2004

Pat. Num./Pub. Num: /20040204427

Issue Date: 00/00/0000

Date of Abandonment: 00/00/0000

Attorney Docket Number: 21635US1

Status: 93 /NOTICE OF ALLOWANCE MAILED --

APPLICATION RECEIVED IN OFFICE OF PUBLICATIONS

Confirmation Number: 3178

Examiner Number: 77575 / MCKENZIE,
THOMAS

Group Art Unit: 1624 IFW IMAGE

Class/Subclass:
 544/256.000

Lost Case: NO Waiting for Response

Interference Number: Desc.

Unmatched Petition: NO Mail N/=. F- 07F → F 445

L&R Code: Secrecy
 Code:1

Third Level Review: NO Secrecy Order: NO

Status Date: 15(168)

02/06/2006 L & (79)

Oral Hearing: NO

Title of Invention: PYRIMIDO COMPOUNDS HAVING ANTIPROLIFERATIVE ACTIVITY

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
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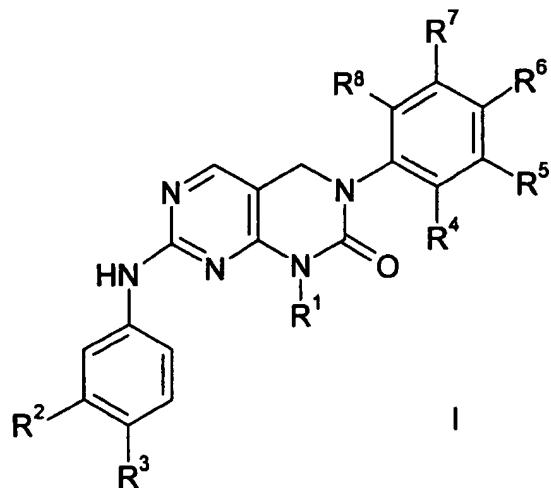
Attorney Docket #

Bar Code #

This listing of the claims will replace all prior versions and listings of the claims in this application.

In the Claims:

1. (Currently amended) A compound of formula



wherein

R¹ is selected from the group consisting of

- H,
- (CH₂)_n-heterocycle,
- lower alkyl substituted by up to three groups selected from -OR⁹, -COR¹⁰, -CO₂R¹⁰, -CONR¹⁰R¹¹, -SO₂NR¹⁰R¹¹, SO₂R¹⁰ or -CN;
- cycloalkyl,
- alkenyl, and
- alkynyl,

where n is 0, 1, 2, or 3, and the heterocycle, alkyl, cycloalkyl, alkenyl, and alkynyl groups are each independently, optionally substituted by up to 3 groups selected from

-OR⁹,
-COR¹⁰,
-CO₂R¹⁰,
-CONR¹⁰R¹¹,
-SO₂NR¹⁰R¹¹,
-SO₂R¹⁰, and
-CN;

R² and R³ are independently selected from the group consisting of

-H,
-OR⁹,
-halogen,
-COR¹⁰,
-CO₂R¹⁰,
-(CH₂)_n-heterocycle,
-alkyl,
-cycloalkyl,
-alkenyl, and
-alkynyl,

where n is 0, 1, 2, or 3, and the heterocycle, alkyl, cycloalkyl, alkenyl, and alkynyl groups are each independently, optionally substituted by up to 3 groups selected from

-OR⁹,
-halogen,
-COR¹⁰, and
-CO₂R¹⁰;

R⁴, R⁵, R⁶, R⁷ and R⁸ are each independently selected from the group consisting of

-H,
-lower alkyl that optionally may be substituted by hydroxy or alkoxy,

-OR¹²,
-halogen,
-COR¹³, and
-CO₂R¹³,

R⁹ is selected from the group consisting of

-H,
-COR¹⁰,
-lower alkyl that optionally may be substituted by hydroxy or alkoxy,
-cycloalkyl that optionally may be substituted by hydroxy, alkoxy, and lower alkyl,
and

-heterocycle that optionally may be substituted by hydroxy, alkoxy or lower alkyl;

R¹⁰ and R¹¹ are each independently selected from the group consisting of

-H,
-lower alkyl that optionally may be substituted by hydroxy or alkoxy,
-cycloalkyl that optionally may be substituted by hydroxy, alkoxy or lower alkyl, and

-heterocycle that optionally may be substituted by hydroxy, alkoxy or lower alkyl;

R¹² is selected from the group consisting of -H, lower alkyl and -COR¹³; and

R¹³ is selected from the group consisting of -H and lower alkyl;

or the pharmaceutically acceptable salts thereof.

2. (Currently amended) The compound of claim 1 wherein R¹ is selected from cycloalkyl; cycloalkyl substituted by -OH; heterocycle; lower alkyl; and lower alkyl substituted by -OH.
3. (Original) The compound of claim 1 wherein R² is -H or -OCH₃.
4. (Original) The compound of claim 1 wherein R³ is -H, F, or -OCH₃.
5. (Original) The compound of claim 1 wherein R² and R³ are both -H.
6. (Original) The compound of claim 1 wherein R⁴, R⁵ and R⁷ are -H.
7. (Original) The compound of claim 1 wherein R⁶ is halogen or OR¹².
8. (Original) The compound of claim 7 wherein R⁶ is -OCH₃.
9. (Original) The compound of claim 1 wherein R⁸ is -H or -F.
10. (Original) The compound of claim 1 wherein R⁹ is -H, lower alkyl, or lower alkyl substituted by hydroxy.
11. (Original) The compound of claim 10 wherein R⁹ is -H.
12. (Original) The compound of claim 1 wherein R¹⁰ is -H, lower alkyl, or lower alkyl substituted by hydroxy.
13. (Original) The compound of claim 12 wherein R¹⁰ is -H.
14. (Original) The compound of claim 1 wherein R¹¹ is -H, lower alkyl, or lower alkyl substituted by hydroxy.

15. (Original) The compound of claim 14 wherein R¹¹ is -H.
16. (Original) The compound of claim 1 wherein R¹² is -H or lower alkyl.
17. (Original) The compound of claim 16 wherein R¹² is -H.
18. (Original) The compound of claim 1 wherein R¹³ is -H or lower alkyl.
19. (Original) The compound of claim 18 wherein R¹³ is -H.
20. (Currently amended) A compound selected from the group:
1-Cyclohexyl-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 1e),
3-(4-Methoxy-phenyl)-7-phenylamino-1-piperidin-4-yl-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 2b),
1-(*trans*-4-Hydroxy-cyclohexyl)-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 3e),
3-(4-Methoxy-phenyl)-7-phenylamino-1-piperidin-3-yl-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 4b),
1-Cyclopentyl-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 5),
1-(1,1-Dioxo-tetrahydro-1*I* 6-thiophen-3-yl)-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 6),
3-[3-(4-Methoxy-phenyl)-2-oxo-7-phenylamino-3,4-dihydro-2H-pyrimido[4,5-d]pyrimidin-1-yl]-piperidine-1-carbaldehyde(Example 7),
3-(4-Methoxy-phenyl)-7-phenylamino-1-(tetrahydro-pyran-4-yl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 8),
(±)-1-(*trans*-3-Hydroxy-cyclopentyl)-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 9d), and

(\pm)-*cis*-1-(3-Hydroxy-cyclopentyl)-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 10e).

21. (Currently amended) A compound selected from the group:

(*R*)-3-(4-Methoxy-phenyl)-7-phenylamino-1-(tetrahydro-furan-3-yl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 11b) (*R*)-3-(4-Methoxy-phenyl)-7-phenylamino-1-pyrrolidin-3-yl-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 12),

(\pm)-7-(4-Fluoro-phenylamino)-1-(*trans*-3-hydroxy-cyclopentyl)-3-(4-methoxy-phenyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 13e),

(\pm)-3-(2-Fluoro-4-methoxy-phenyl)-1-(*trans*-3-hydroxy-cyclopentyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 14d),

(S)-(+)-1-(2-Hydroxy-1-methyl-ethyl)-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 15d),

(S)-(+)-7-(4-Fluoro-phenylamino)-1-(2-hydroxy-1-methyl-ethyl)-3-(4-methoxy-phenyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 16),

3-(2-Fluoro-4-methoxy-phenyl)-1-(*trans*-4-hydroxy-cyclohexyl)-7-(4-methoxy-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 17d),

3-(2-Fluoro-4-methoxy-phenyl)-1-(*trans*-4-hydroxy-cyclohexyl)-7-(3,4-dimethoxy-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 18),

3-(4-Methoxy-phenyl)-1-(*trans*-4-hydroxy-cyclohexyl)-7-(3,4-dimethoxy-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 19e),

3-(4-Methoxy-phenyl)-1-(*trans*-4-hydroxy-cyclohexyl)-7-(4-methoxy-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 20b), and

(S)-(+)-3-(2-Fluoro-4-methoxy-phenyl)-7-(4-fluoro-phenylamino)-1-(2-hydroxy-1-methyl-ethyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 21b).

22. (Currently amended) A compound selected from the group:

(S)-(+)-3-(2-Fluoro-4-methoxy-phenyl)-1-(2-hydroxy-1-methyl-ethyl)-7-(4-methoxy-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one(Example 22),

(*R*)-(−)-1-(2-Hydroxy-1-methyl-ethyl)-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 23d~~),

3-(4-Methoxy-phenyl)-1-methyl -7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidine-2-one (~~Example 24b~~),

1-(2-methoxy-ethoxymethyl)-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 25~~),

3-[3-(4-Methoxy-phenyl)-2-oxo-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-1-yl]-propionitrile (~~Example 26~~),

(+)-(1*R*,3*R*)-1-(3-Hydroxy-cyclopentyl)-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 27f~~),

(*R*)-1-(2-Hydroxy-propyl)-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 28d~~),

(-)-(1*S*,3*S*)-1-(3-Hydroxy-cyclopentyl)-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 29h~~),

3-[3-(4-Methoxy-phenyl)-2-oxo-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-1-yl]-propionamide (~~Example 30~~), and

(*S*)-(+)-1-(2-Hydroxy-propyl)-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 31d~~).

23. (Currently amended) A compound selected from the group:

1-(*cis*-3,5-Dihydroxy-cyclohexyl)-3-(2-fluoro-4-methoxy-phenyl)-7-(4-methoxyphenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 32f~~),

1-(*cis*-3,5-Dihydroxy-cyclohexyl)-3-(4-methoxy-phenyl)-7-(4-methoxy-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 33e~~),

1-(*cis*-3,5-Dihydroxy-cyclohexyl)-3-(4-methoxy-phenyl)-7-(4-fluoro-3-methoxy-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 34f~~),

1-(*cis*-3,5-Dihydroxy-cyclohexyl)-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 35b~~),

1-(*cis*-3,5-Dihydroxy-cyclohexyl)-3-(2-fluoro-4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 36b~~),

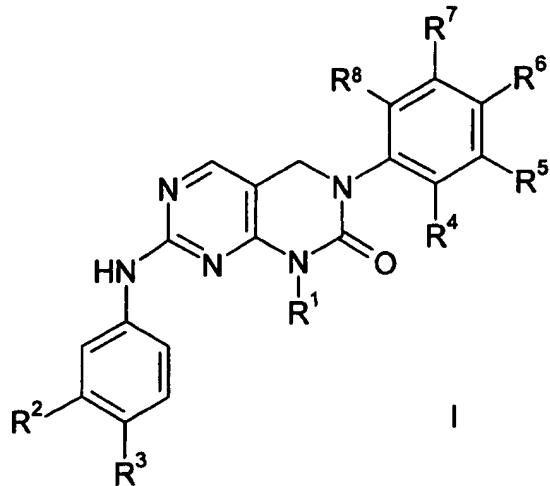
1-(*cis*-3,5-Dihydroxy-cyclohexyl)-3-(2-fluoro-4-methoxy-phenyl)-7-(4-fluoro-3-methoxyphenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 37b),

(*R*)-3-(4-Ethyl-phenyl)-7-(4-fluoro-phenylamino)-1-(2-hydroxy-1-methyl-ethyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 38g),

(\pm)-3-(4-Ethyl-phenyl)-7-(4-fluoro-phenylamino)-1-(*trans*-3-hydroxy-cyclopentyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 39d), and

1-Cyclopropylmethyl-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidine-2-one (Example 40).

24. (Original) A compound of formula



wherein

R^1 is selected from

- H,
- lower alkyl substituted by -OH, COR¹⁰, -CN or -CONH₂,
- (CH₂)_n-heterocycle,
- (CH₂)_n-heterocycle substituted by -COR¹⁰, -CO₂R¹⁰ or (=O)₂,
- cycloalkyl,
- cycloalkyl substituted by -OH;

R^2 is H or -OCH₃;

R^3 is H, F or -OCH₃;

R^4 , R^5 and R^7 are H;
 R^6 is $-OCH_3$ or lower alkyl;
 R^8 is H or F H;
 R^{10} is lower alkyl substituted by alkoxy; and
n is 0 or 1.

25. (Original) A pharmaceutical composition comprising a therapeutically effective amount of a compound of claim 1 and pharmaceutically acceptable carrier or excipient.
26. (Currently amended) A method for treating breast, lung, colon or prostate cancer comprising administering to a patient in need of such treatment a therapeutically effective amount of a compound of claim 1.
27. (Currently amended) A method of controlling breast, lung, colon or prostate cancer comprising administering to a patient in need of such treatment a therapeutically effective amount of a compound of claim 1.
28. Cancelled.
29. Cancelled.
30. (Currently amended) A compound selected from the group:
 $4-[3-(4-Methoxy-phenyl)-2-oxo-7-phenylamino-3,4-dihydro-2H-pyrimido[4,5-d]pyrimidin-1-yl]-piperidine-1-carboxylic acid$ *tert*-butyl ester (Example 2a),
 $1-[trans-4-(tert-Butyl-dimethyl-silanyloxy)-cyclohexyl]-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one$ (Example 3b),

3-[3-(4-Methoxy-phenyl)-2-oxo-7-phenylamino-3,4-dihydro-2H-pyrimido[4,5-d]pyrimidin-1-yl]-piperidine-1-carboxylic acid *tert*-butyl ester (Example 4a),

(\pm)-3-*cis*-(*tert*-Butyl-dimethyl-silyloxy)-cyclopentyl]-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 10d),

(R)-2-Methylsulfanyl-4-(tetrahydro-furan-3-ylamino)-pyrimidine-5-carboxylic acid ethyl ester (Example 11a),

(\pm)-4-[*trans*-3-(*tert*-Butyl-dimethyl-silyloxy)-cyclopentylamino]-2-methylsulfanyl-pyrimidine-5-carbaldehyde (Example 13a),

(\pm)-1-[*trans*-3-(*tert*-Butyl-dimethyl-silyloxy)-cyclopentyl]-3-(4-methoxy-phenyl)-7-methylsulfanyl-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 13b),

(\pm)-[3-*trans*-(*tert*-Butyl-dimethyl-silyloxy)-cyclopentyl]-{5-[(2-fluoro-4-methoxy-phenylamino)-methyl]-2-methylsulfanyl-pyrimidin-4-yl}-amine (Example 14b),

(\pm)-1-[*trans*-3-(*tert*-Butyl-dimethyl-silyloxy)-cyclopentyl]-3-(4-methoxy-phenyl)-7-methylsulfanyl-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 14c),

(S)-1-[2-(*tert*-Butyl-diphenyl-silyloxy)-1-methyl-ethyl]-7-chloro-3-(4-methoxy-phenyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 15e),

1-[*trans*-4-(*tert*-Butyl-dimethyl-silyloxy)-cyclohexyl]-7-chloro-3-(2-fluoro-4-methoxy-phenyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 17e),

1-[*trans*-4-(*tert*-Butyl-dimethyl-silyloxy)-cyclohexyl]-7-chloro-3-(4-methoxy-phenyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 19a),

1-[*trans*-4-(*tert*-Butyl-dimethyl-silyloxy)-cyclohexyl]-3-(4-methoxy-phenyl)-7-(3,4-dimethoxy-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 19b), and

1-[*trans*-4-(*tert*-Butyl-dimethyl-silyloxy)-cyclohexyl]-3-(4-methoxy-phenyl)-7-(4-methoxy-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 20a).

31. (Currently amended) A compound selected from the group:

(S)-1-[2-(*tert*-Butyl-diphenyl-silyloxy)-1-methyl-ethyl]-7-chloro-3-(2-fluoro-4-methoxy-phenyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 21a),

(*R*)-1-[2-(*tert*-Butyl-diphenyl-silanyloxy)-1-methyl-ethyl]-7-chloro-3-(4-methoxy-phenyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 23e~~),

3-(4-Methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidine-2-one (~~Example 24a~~),

(+)-(1*R*,3*R*)-4-[3-(*tert*-Butyl-dimethyl-silanyloxy)-cyclopentylamino]-2-methylsulfanyl-pyrimidine-5-carboxylic acid ethyl ester (~~Example 27d~~),

(-)-(1*R*,3*R*)-1-[3-(*tert*-Butyl-dimethyl-silanyloxy)-cyclopentyl]-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 27e~~),

(*R*)-1-[2-(*tert*-Butyl-diphenyl-silanyloxy)-propyl]-7-chloro-3-(4-methoxy-phenyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 28e~~),

(-)-(1*S*,3*S*)-4-[3-(*tert*-Butyl-dimethyl-silanyloxy)-cyclopentylamino]-2-methylsulfanyl-pyrimidine-5-carboxylic acid ethyl ester (~~Example 29d~~),

(-)-(1*S*,3*S*)-4-[3-(*tert*-Butyl-dimethyl-silanyloxy)-cyclopentylamino]-2-methylsulfanyl-pyrimidine-5-carbaldehyde (~~Example 29e~~),

(-)-(1*S*,3*S*)-1-[3-(*tert*-Butyl-dimethyl-silanyloxy)-cyclopentyl]-3-(4-methoxy-phenyl)-7-methylsulfanyl-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 29f~~),

(-)-(1*S*,3*S*)-1-[3-(*tert*-Butyl-dimethyl-silanyloxy)-cyclopentyl]-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 29g~~),

(*S*)-1-[2-(*tert*-Butyl-diphenyl-silanyloxy)-propyl]-7-chloro-3-(4-methoxy-phenyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 31e~~),

1-[*cis*-3,5-Bis-(*tert*-butyl-diphenyl-silanyloxy)-cyclohexyl]-7-chloro-3-(2-fluoro-4-methoxy-phenyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 32d~~),

1-[*cis*-3,5-Bis-(*tert*-butyl-diphenyl-silanyloxy)-cyclohexyl]-3-(2-fluoro-4-methoxy-phenyl)-7-(4-methoxy-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 32e~~), and

1-[*cis*-3,5-Bis-(*tert*-butyl-diphenyl-silanyloxy)-cyclohexyl]-7-chloro-3-(4-methoxy-phenyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 33a~~).

32. (Currently amended) A compound selected from the group:

1-[*cis*-3,5-Bis-(*tert*-butyl-diphenyl-silanyloxy)-cyclohexyl]-3-(4-methoxy-phenyl)-7-(4-methoxy-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (~~Example 33b~~),

1-[*cis*-3,5-Bis-(*tert*-butyl-diphenyl-silanyloxy)-cyclohexyl]-3-(4-methoxy-phenyl)-7-(4-fluoro-3-methoxy-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 34e),

1-[*cis*-3,5-Bis-(*tert*-butyl-diphenyl-silanyloxy)-cyclohexyl]-3-(4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 35a),

1-[*cis*-3,5-Bis-(*tert*-butyl-diphenyl-silanyloxy)-cyclohexyl]-3-(2-fluoro-4-methoxy-phenyl)-7-phenylamino-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 36a),

1-[*cis*-3,5-Bis-(*tert*-butyl-diphenyl-silanyloxy)-cyclohexyl]-3-(2-fluoro-4-methoxy-phenyl)-7-(4-fluoro-3-methoxy-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 37a),

(2,4-Dichloro-pyrimidin-5-ylmethyl)-(4-ethyl-phenyl)-amine (Example 38e),

(R)-3-[2-(*tert*-Butyl-dimethyl-silanyloxy)-1-methyl-ethyl]-1-(2,4-dichloro-pyrimidin-5-ylmethyl)-1-(4-ethyl-phenyl)-urea (Example 38d),

(R)-1-[2-(*tert*-Butyl-dimethyl-silanyloxy)-1-methyl-ethyl]-7-chloro-3-(4-ethyl-phenyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 38e),

(R)-1-[2-(*tert*-Butyl-dimethyl-silanyloxy)-1-methyl-ethyl]-3-(4-ethyl-phenyl)-7-(4-fluoro-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 38f),

(±)-[*trans*-3-(*tert*-Butyl-dimethyl-silanyloxy)-cyclopentyl]-{2-chloro-5-[(4-ethyl-phenylamino)-methyl]-pyrimidin-4-yl}-amine (Example 38a),

(±)-1-[*trans*-3-(*tert*-Butyl-dimethyl-silanyloxy)-cyclopentyl]-7-chloro-3-(4-ethyl-phenyl)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 39b), and

(±)-1-[*trans*-3-(*tert*-Butyl-dimethyl-silanyloxy)-cyclopentyl]-3-(4-ethyl-phenyl)-7-(4-fluoro-phenylamino)-3,4-dihydro-1H-pyrimido[4,5-d]pyrimidin-2-one (Example 39c).

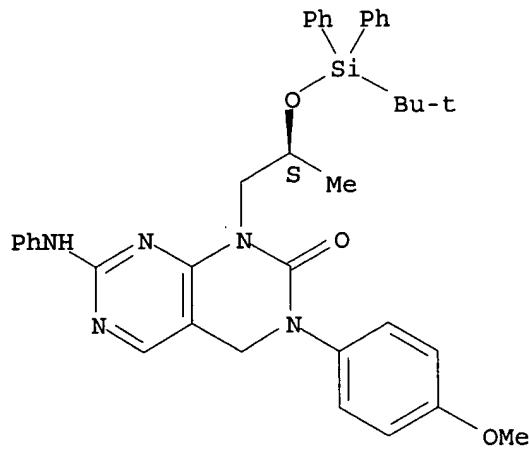
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Page 1

=> 10/817,697 compounds

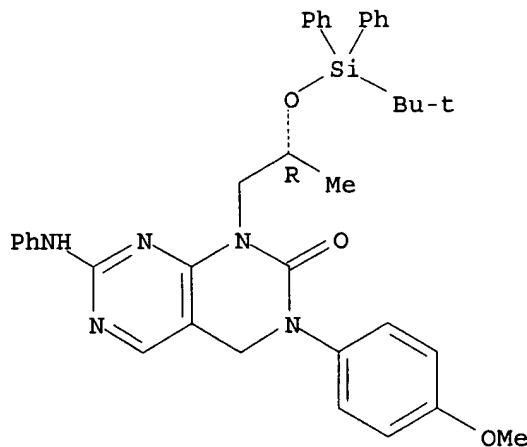
L8 ANSWER 1 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



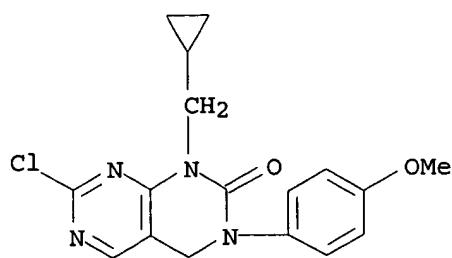
L8 ANSWER 2 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.

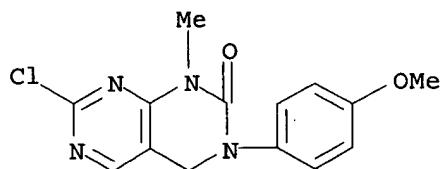


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Thomas McKenzie

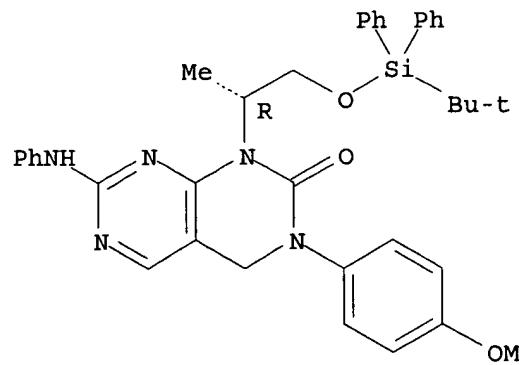


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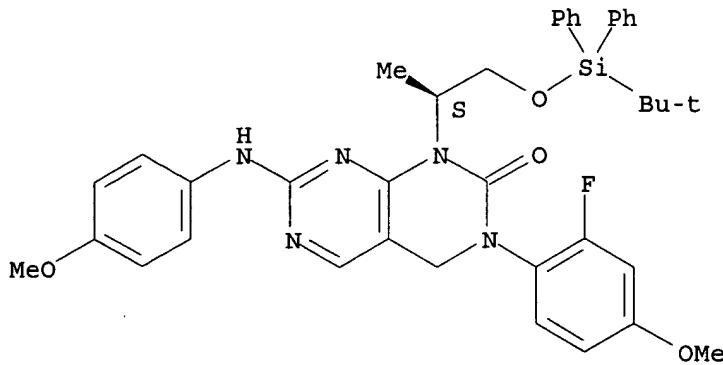
L8 ANSWER 5 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



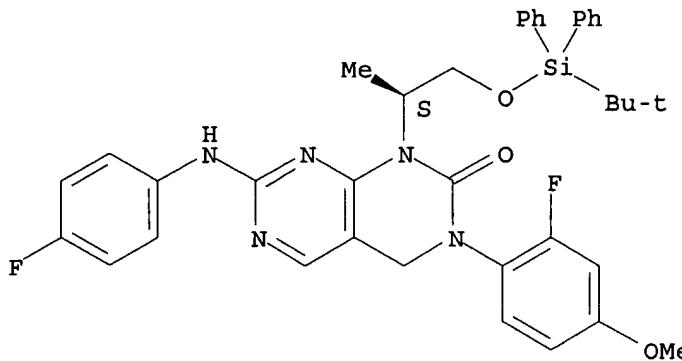
L8 ANSWER 6 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



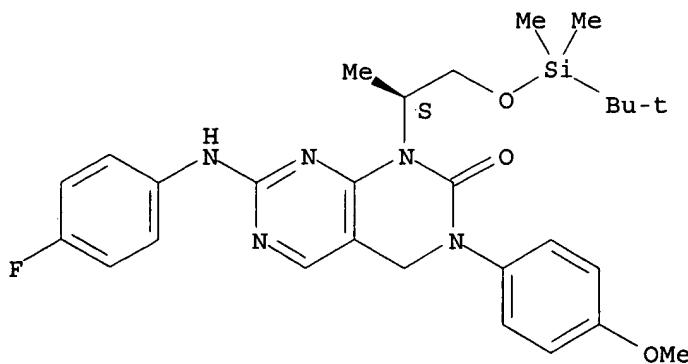
L8 ANSWER 7 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



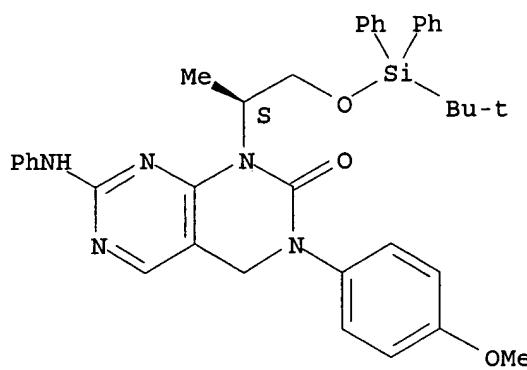
L8 ANSWER 8 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



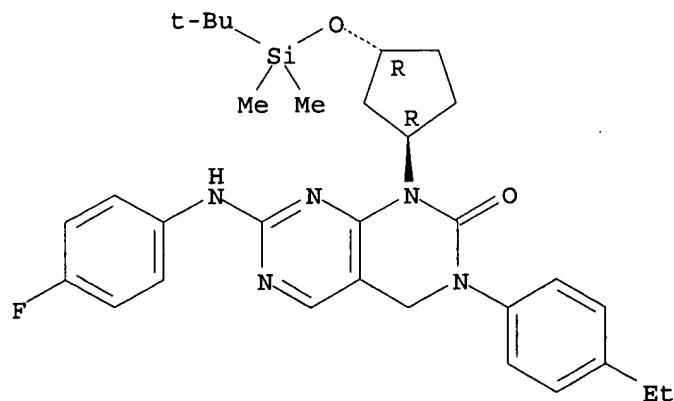
L8 ANSWER 9 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



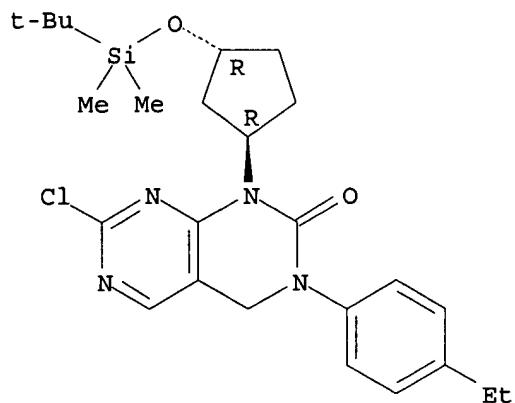
L8 ANSWER 10 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



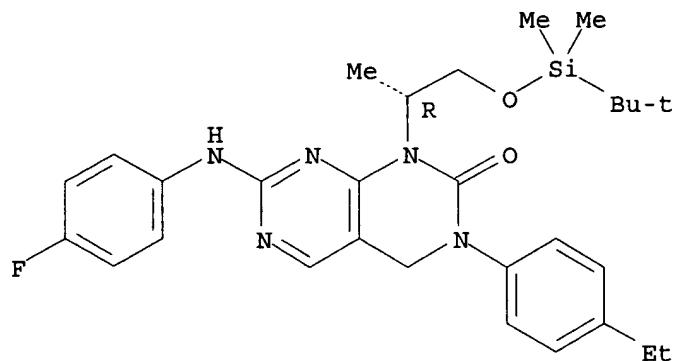
L8 ANSWER 11 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



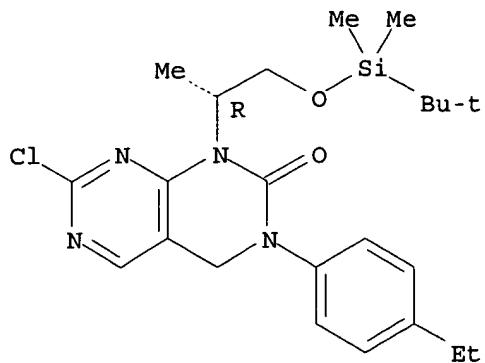
L8 ANSWER 12 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



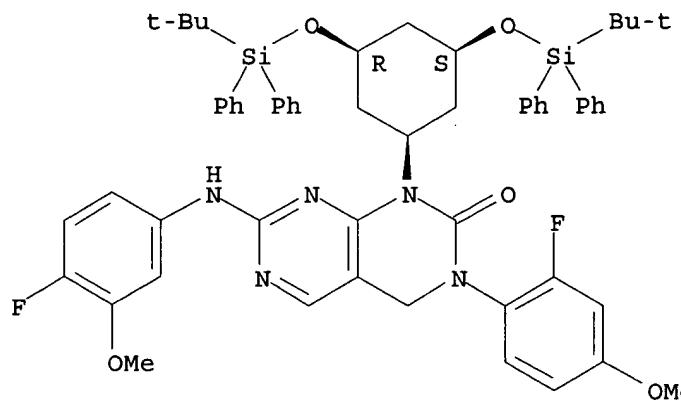
L8 ANSWER 13 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



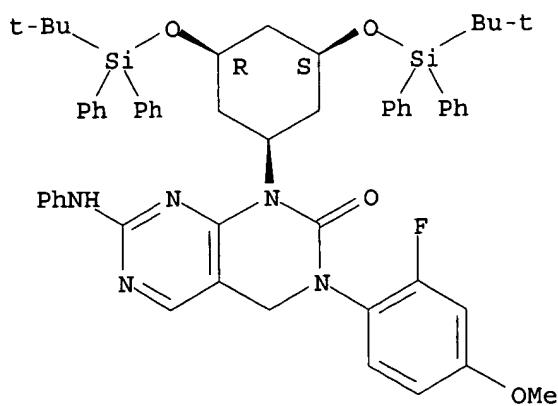
L8 ANSWER 14 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



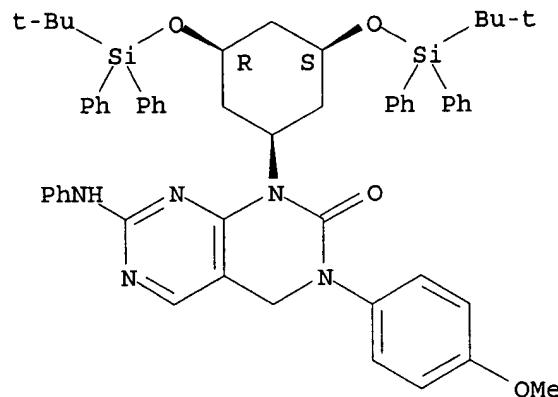
L8 ANSWER 15 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



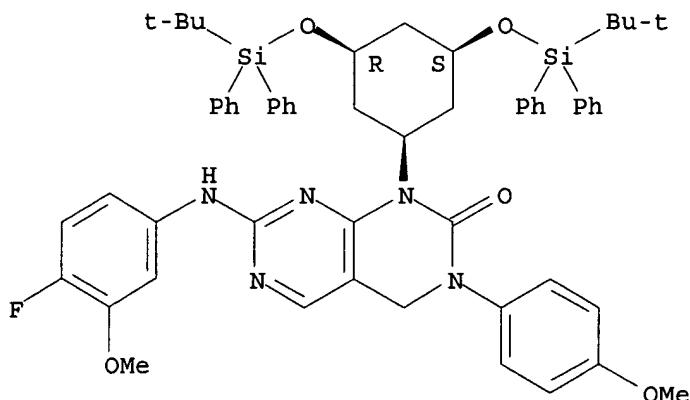
L8 ANSWER 16 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



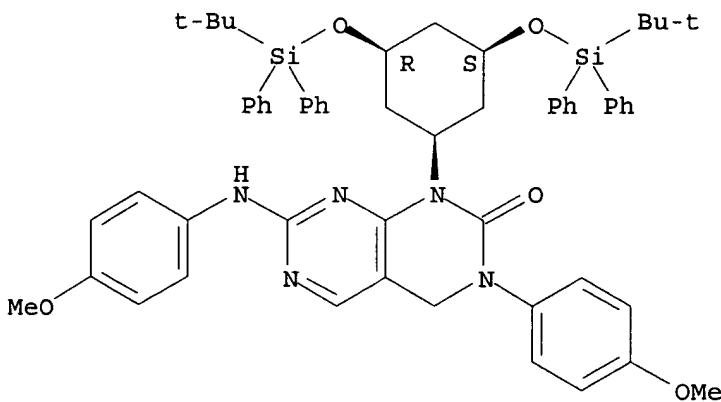
L8 ANSWER 17 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



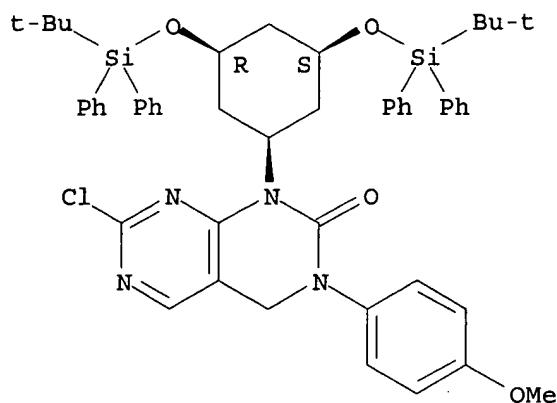
L8 ANSWER 18 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



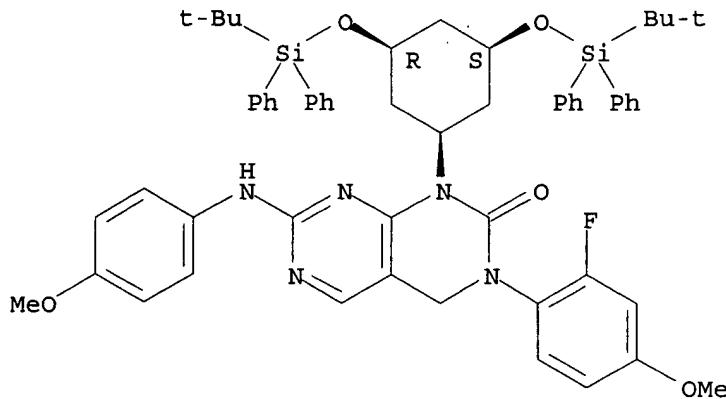
L8 ANSWER 19 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



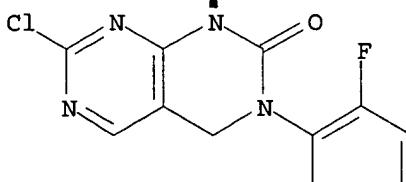
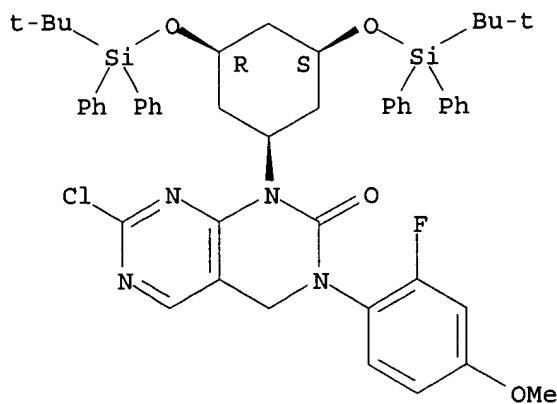
L8 ANSWER 20 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



L8 ANSWER 21 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

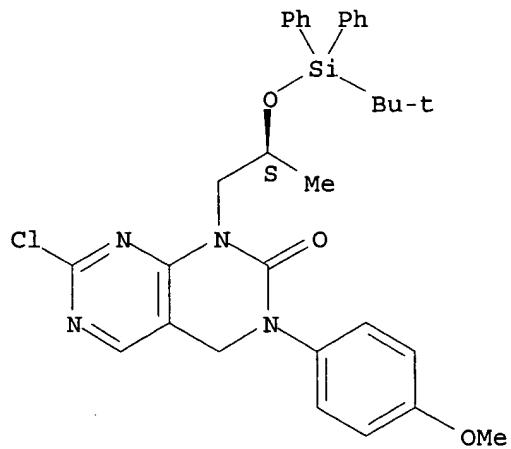
Relative stereochemistry.



OMe

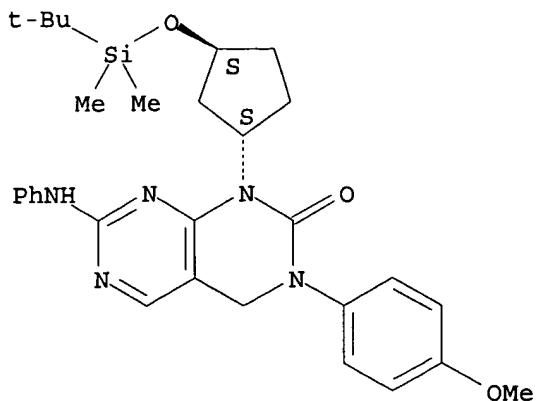
L8 ANSWER 22 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



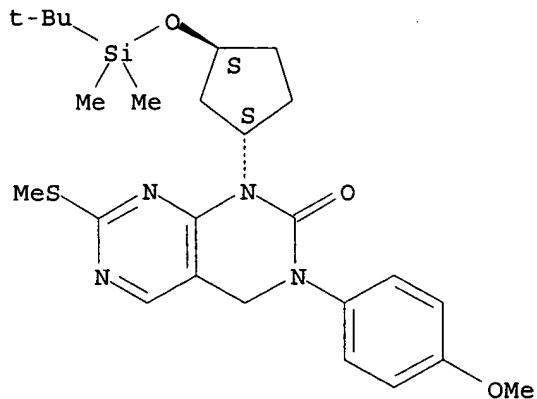
L8 ANSWER 23 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry. Rotation (-).



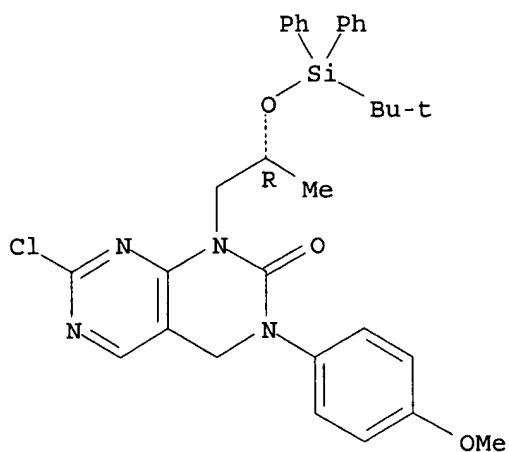
L8 ANSWER 24 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry. Rotation (-).



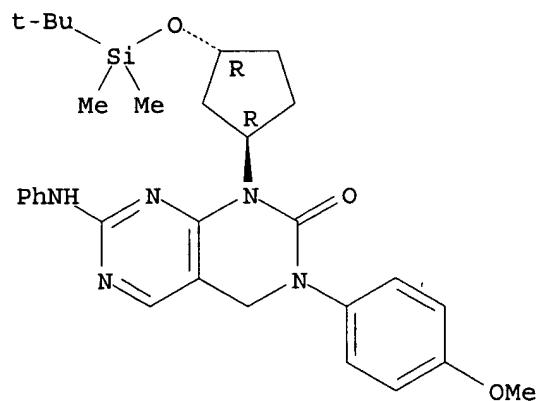
L8 ANSWER 25 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



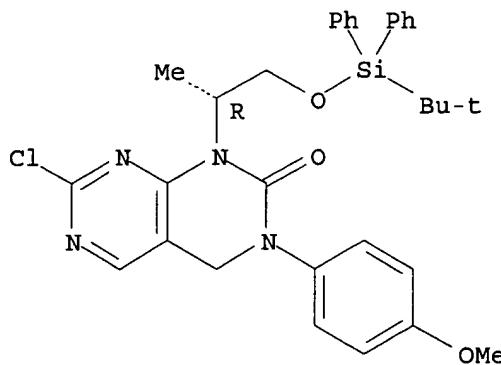
L8 ANSWER 26 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry. Rotation (-).



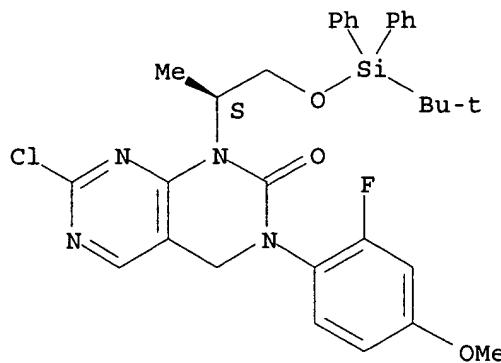
L8 ANSWER 27 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



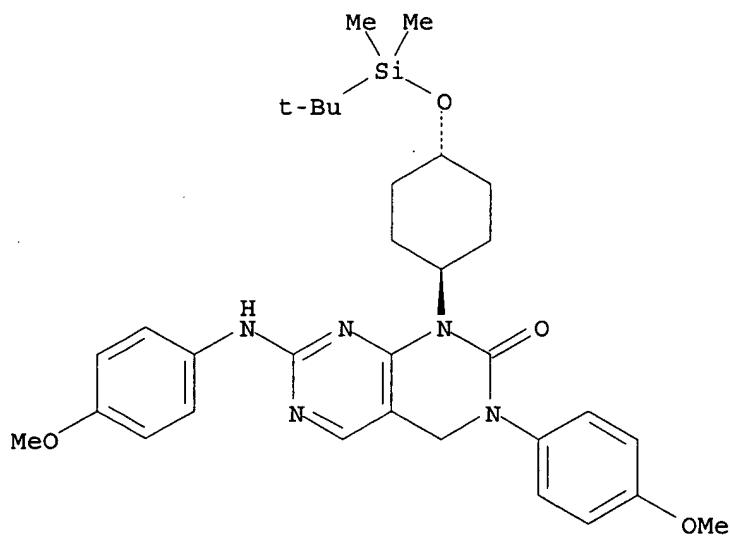
L8 ANSWER 28 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



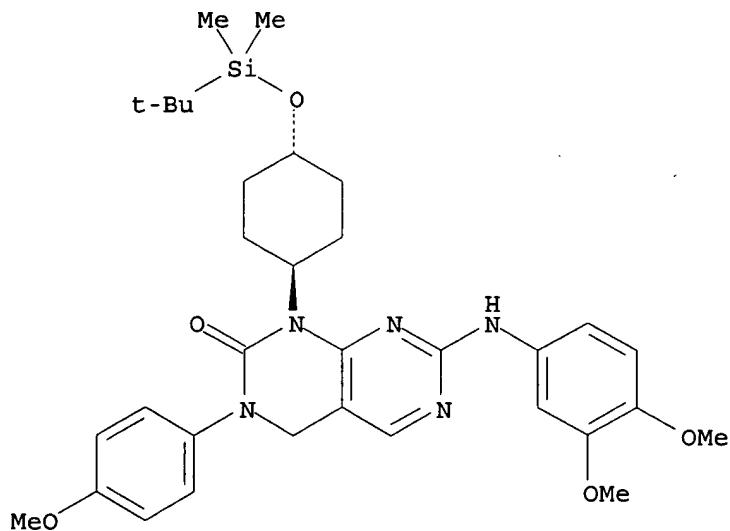
L8 ANSWER 29 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



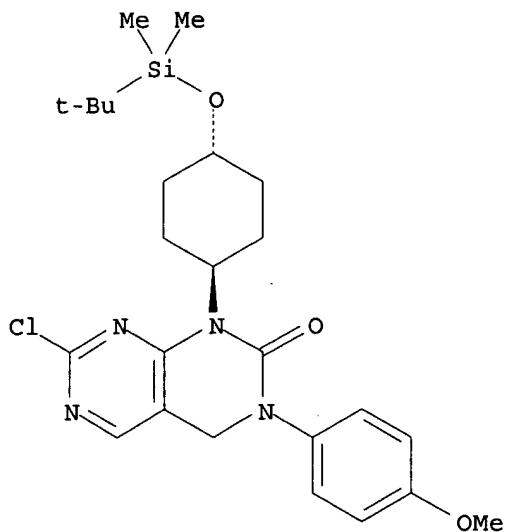
L8 ANSWER 30 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



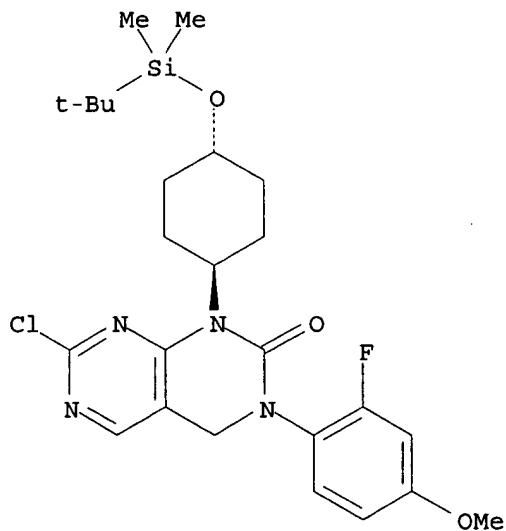
L8 ANSWER 31 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



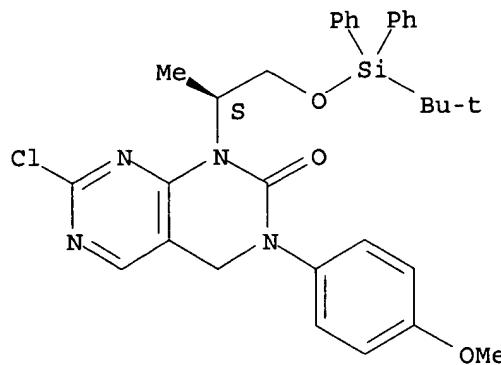
L8 ANSWER 32 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



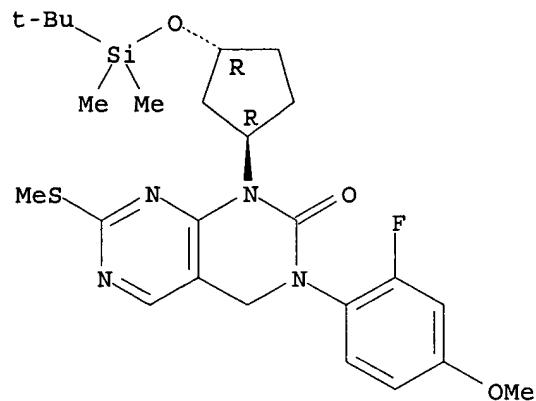
L8 ANSWER 33 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



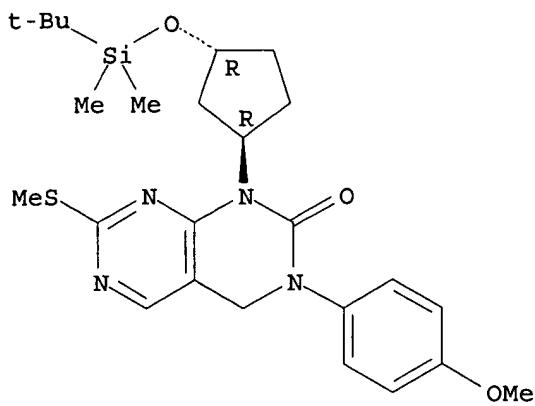
L8 ANSWER 34 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



L8 ANSWER 35 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

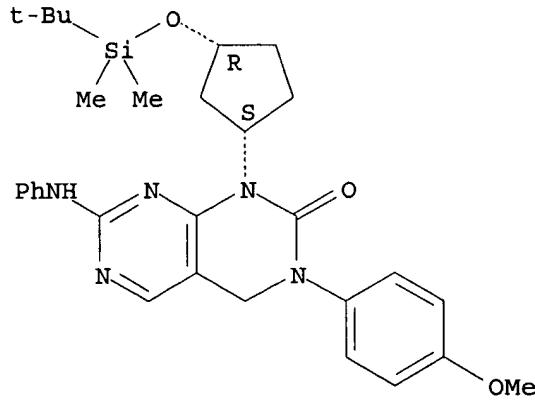
Relative stereochemistry.



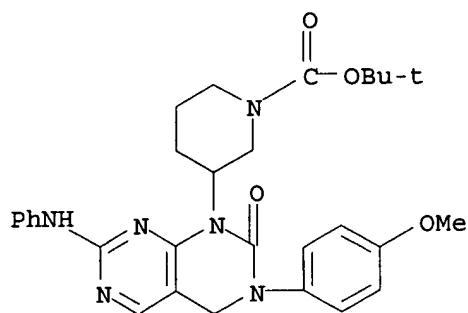
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L8 ANSWER 36 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.

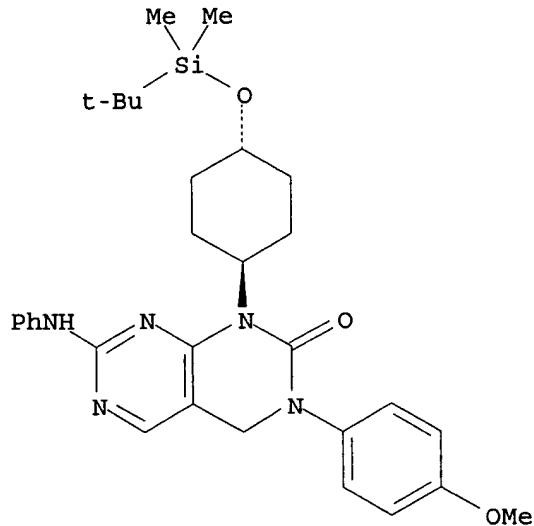


L8 ANSWER 37 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

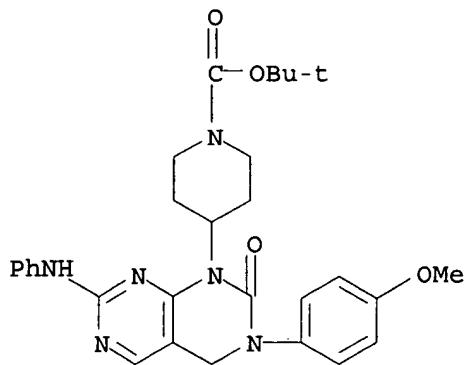


L8 ANSWER 38 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

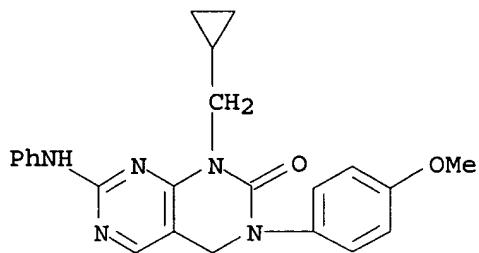
Relative stereochemistry.



L8 ANSWER 39 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

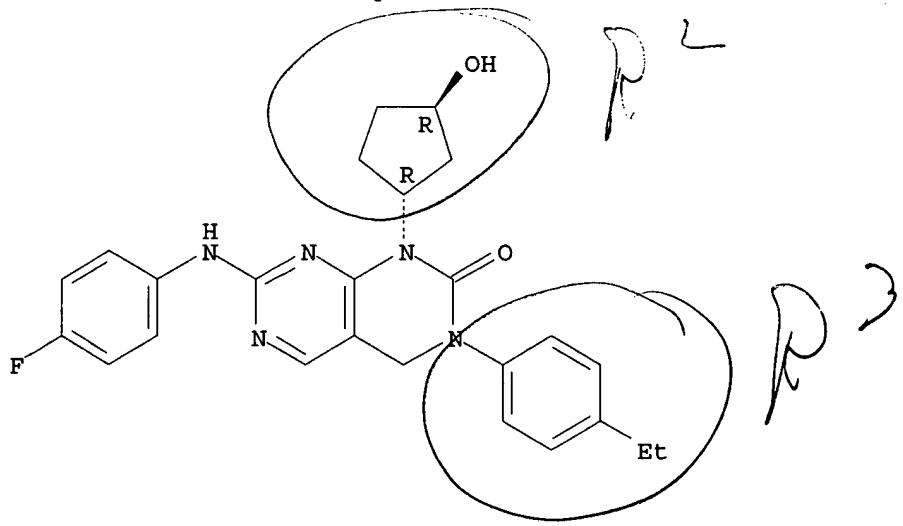


L8 ANSWER 40 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN



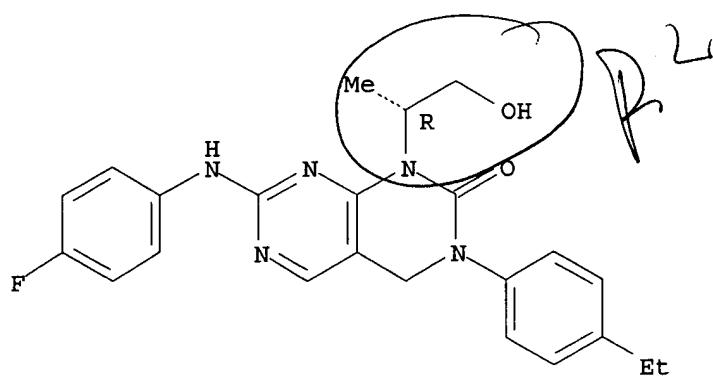
L8 ANSWER 41 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



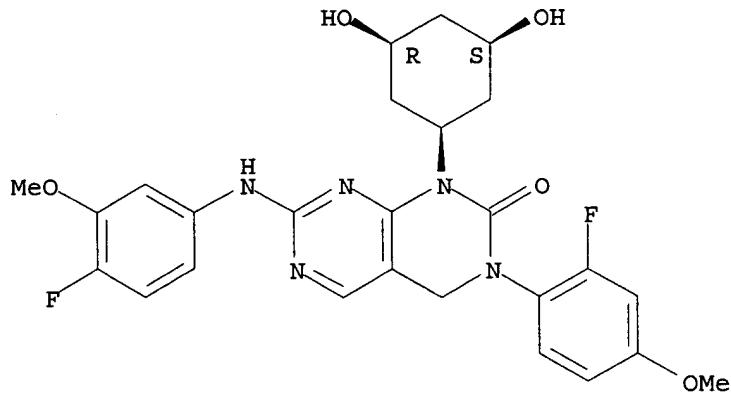
L8 ANSWER 42 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



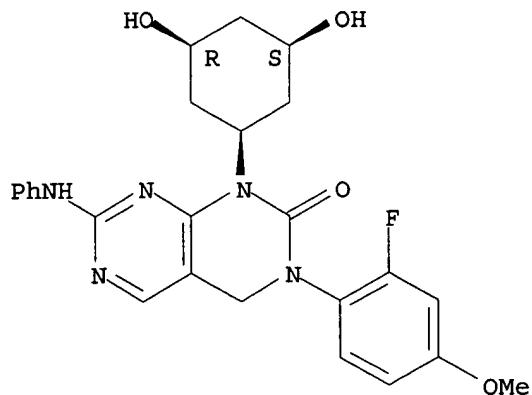
L8 ANSWER 43 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



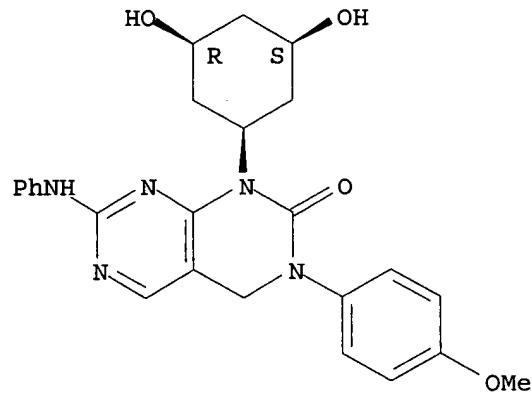
L8 ANSWER 44 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



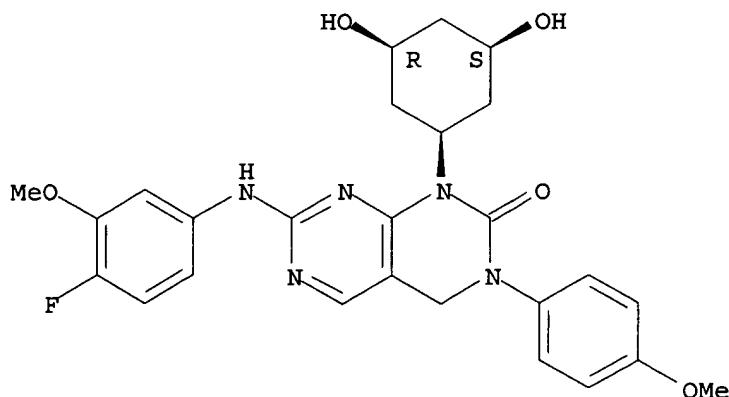
L8 ANSWER 45 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



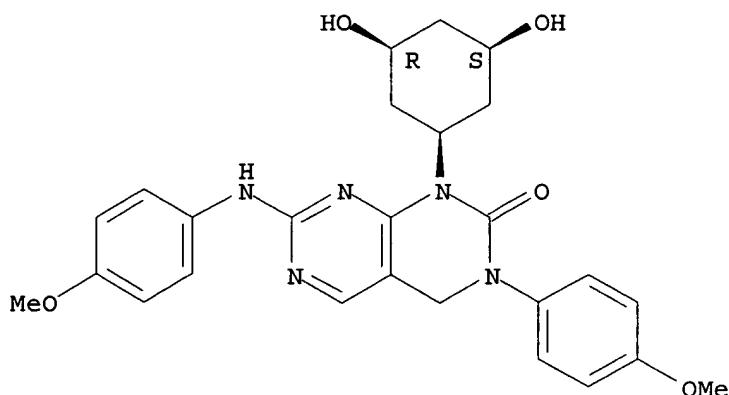
L8 ANSWER 46 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



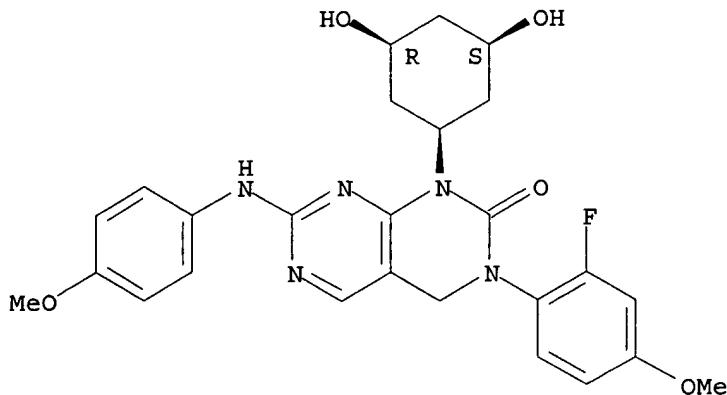
L8 ANSWER 47 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



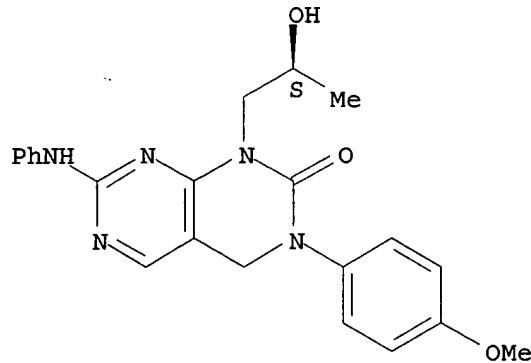
L8 ANSWER 48 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.

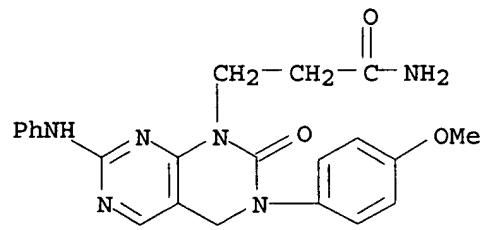


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Absolute stereochemistry. Rotation (+).

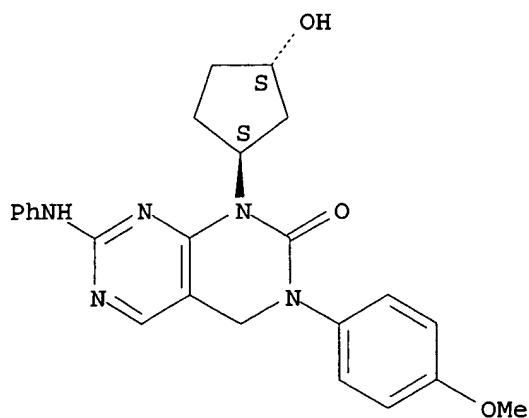


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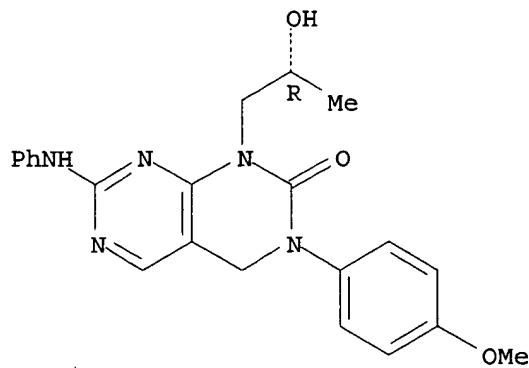
L8 ANSWER 51 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry. Rotation (-).



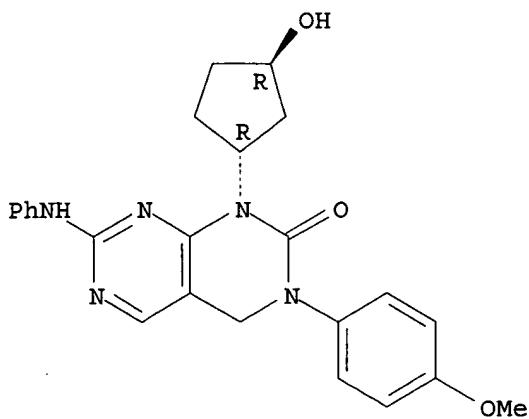
L8 ANSWER 52 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.

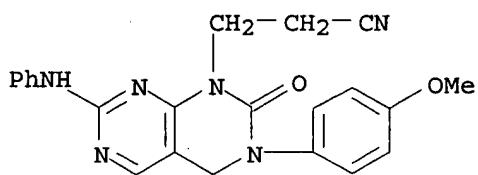


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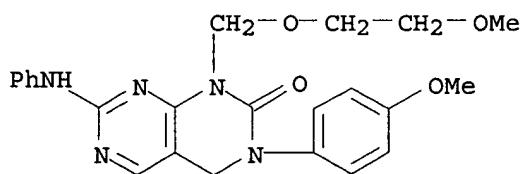
Absolute stereochemistry. Rotation (+).



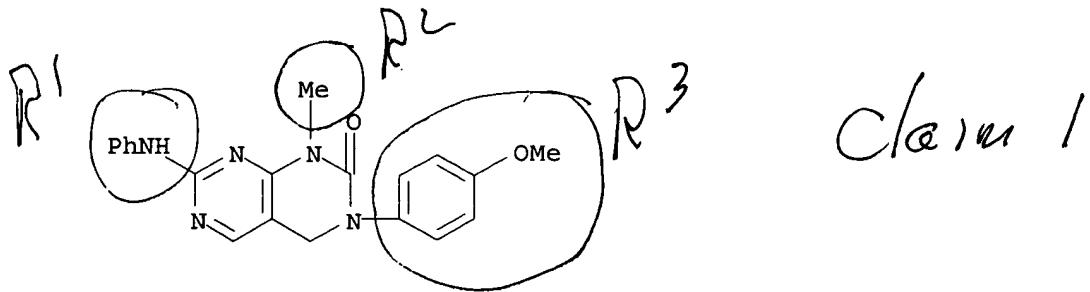
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L8 ANSWER 55 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

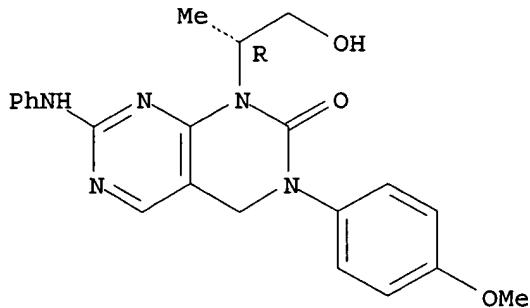


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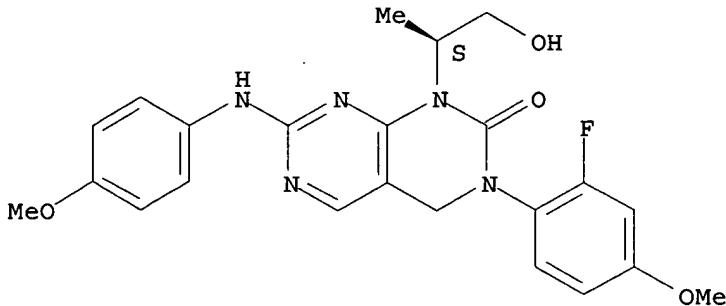
L8 ANSWER 57 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry. Rotation (-).



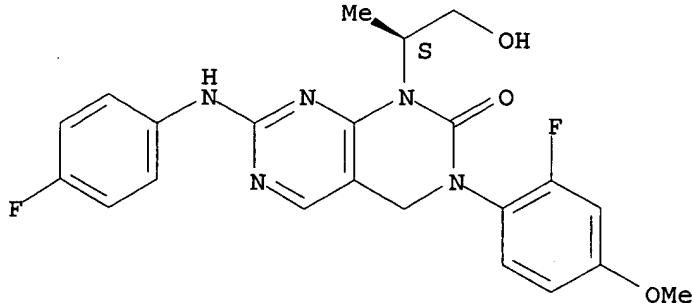
L8 ANSWER 58 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry. Rotation (+).



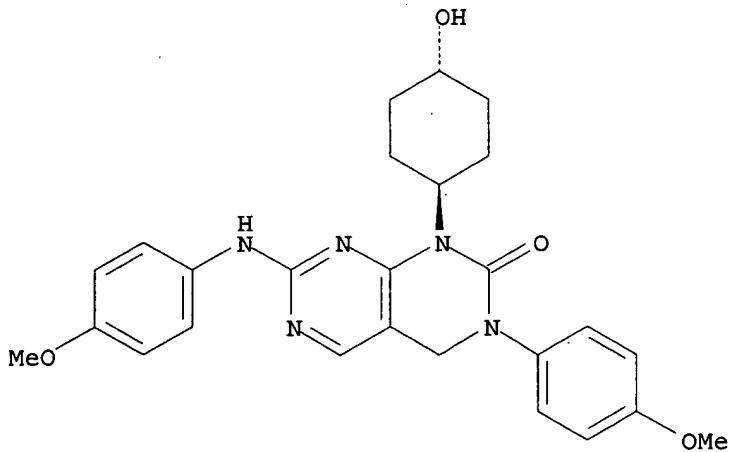
L8 ANSWER 59 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry. Rotation (+).



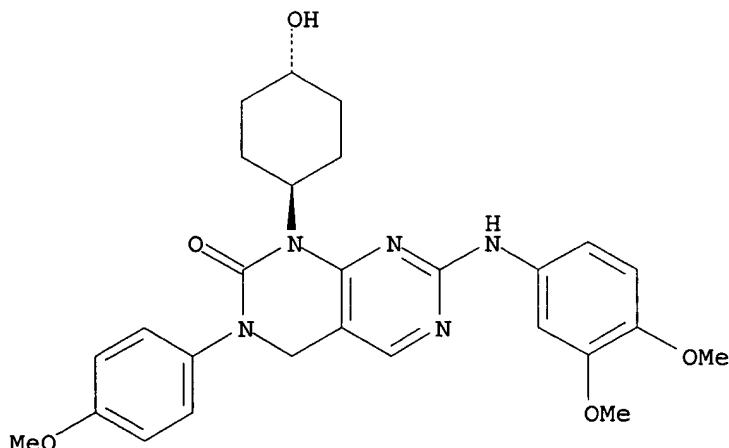
L8 ANSWER 60 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



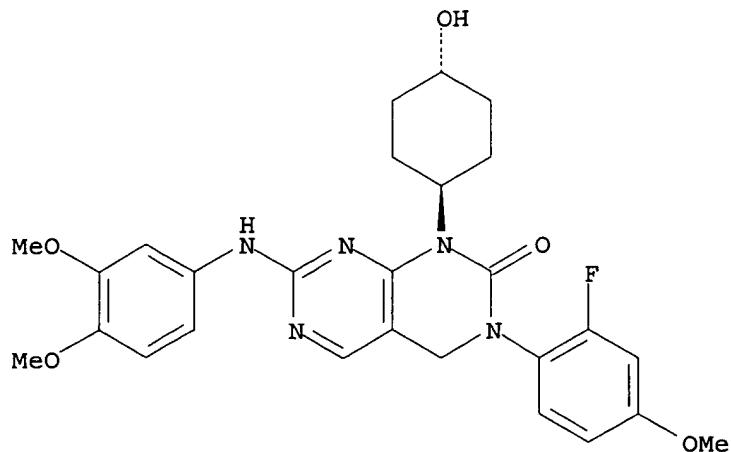
L8 ANSWER 61 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



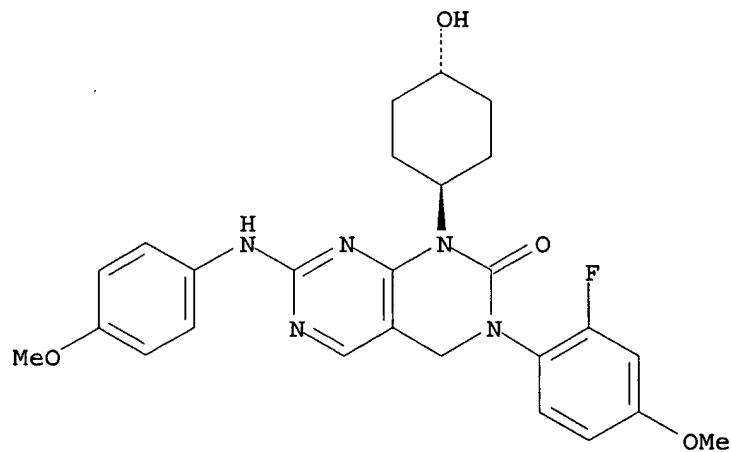
L8 ANSWER 62 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



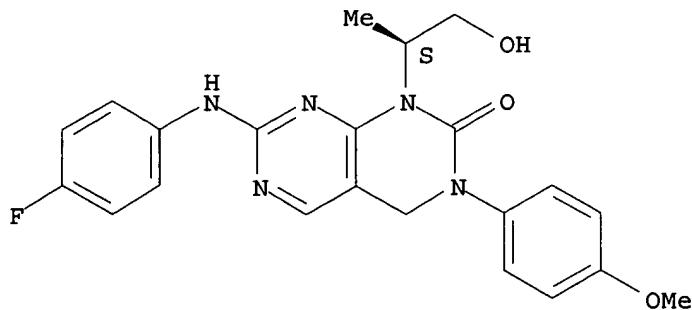
L8 ANSWER 63 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



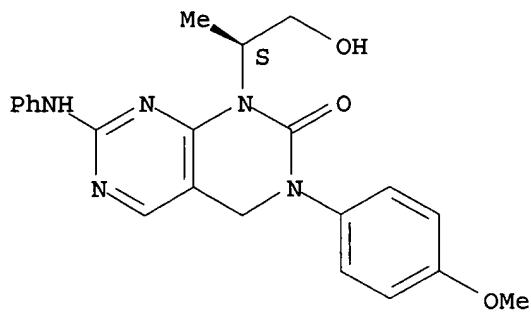
L8 ANSWER 64 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry. Rotation (+).



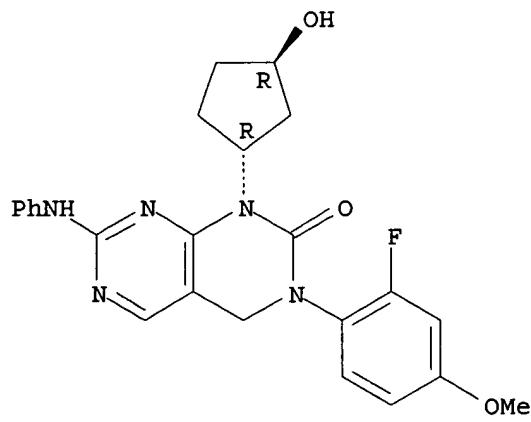
L8 ANSWER 65 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry. Rotation (+).



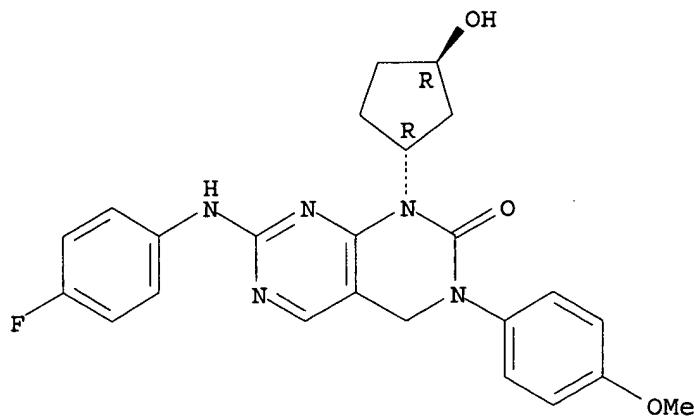
L8 ANSWER 66 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



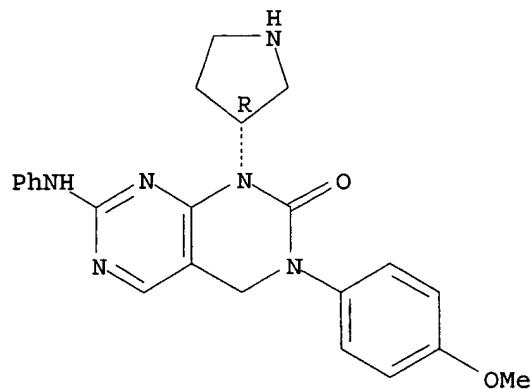
L8 ANSWER 67 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



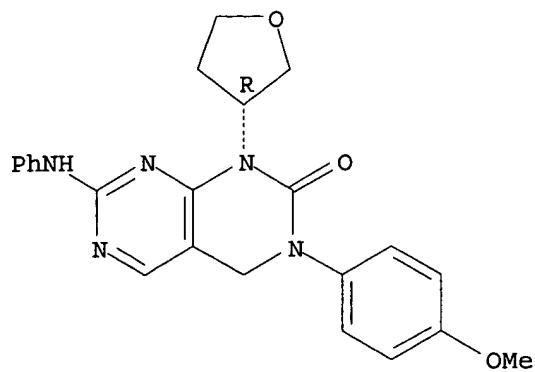
L8 ANSWER 68 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



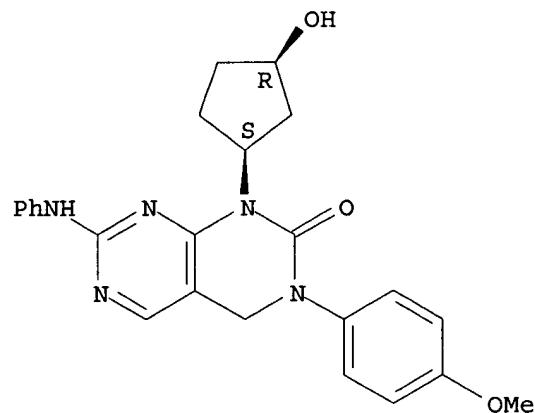
L8 ANSWER 69 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Absolute stereochemistry.



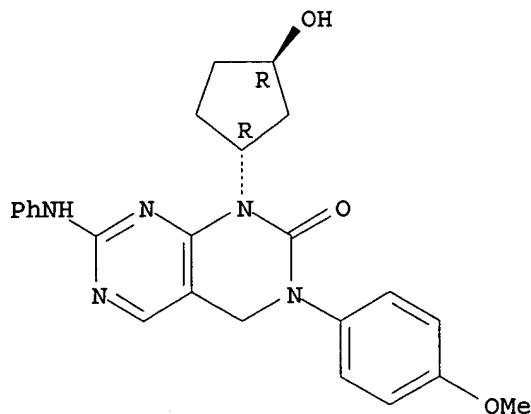
L8 ANSWER 70 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.



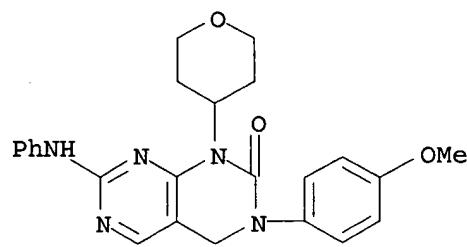
L8 ANSWER 71 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN

Relative stereochemistry.

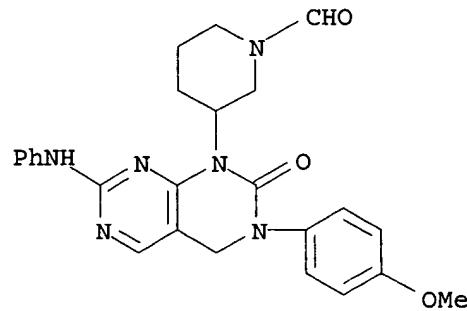


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

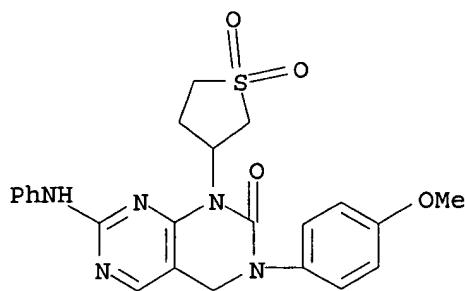
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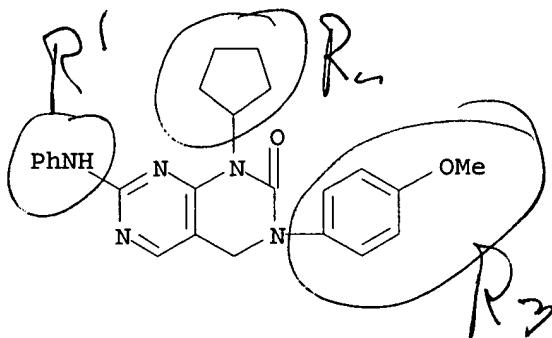
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L8 ANSWER 74 OF 79 REGISTRY COPYRIGHT 2006 ACS on STN



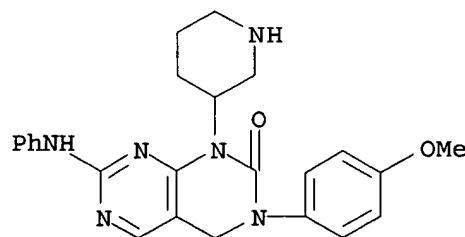
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claims

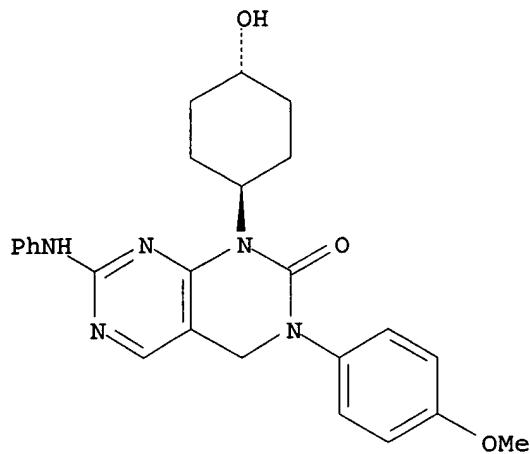
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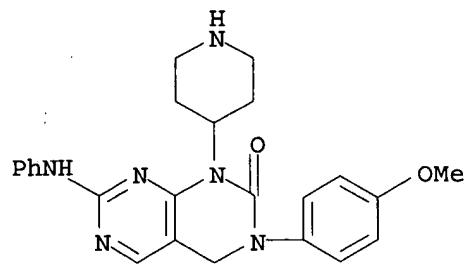


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Relative stereochemistry.



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